

HCOPB03	HCOPB03R	1129	2 - 598	3304	Asp-28 to Glu-34, Ala-38 to Ile-44, Ala-64 to Arg-77, Gly-82 to Ala-88.
<p>H0271: 2, H0290: 2, L0769: 2, L0800: 2, L0794: 2, L0766: 2, L0775: 2, H0547: 2, S0126: 2, S0380: 2, L0752: 2, L0758: 2, L0596: 2, H0295: 1, S0212: 1, H0125: 1, H0559: 1, T0060: 1, T0082: 1, H0150: 1, N0006: 1, H0024: 1, S0022: 1, H0688: 1, H0428: 1, T0023: 1, H0033: 1, H0424: 1, H0213: 1, H0412: 1, H0413: 1, H0633: 1, S0344: 1, L0646: 1, L0768: 1, L0804: 1, L0656: 1, L0783: 1, L0809: 1, L0788: 1, L0666: 1, L0663: 1, L0438: 1, H0670: 1, H0660: 1, H0522: 1, S0037: 1, L0439: 1, L0750: 1, L0759: 1, S0031: 1 and S0196: 1.</p>					

HCOPC45	HCOPC45R	1130	3 - 89	3305				
HCOPD67	HCOPD67R	1131	26 - 541	3306	Phe-1 to Gly-7.			
HCOPE27	HCOPE27R	1132	2 - 400	3307	Arg-37 to Gly-44, Asp-76 to Gly-87.	L0751: 16, L0601: 10, L0659: 4, H0670: 4, L0665: 3, S0376: 2, H0494: 2, L0758: 2, L0596: 2, H0587: 1, H0646: 1, L0372: 1, L0646: 1, L0662: 1, L0552: 1, L0376: 1, L0806: 1, L0664: 1, H0682: 1, H0435: 1, H0672: 1 and L0744: 1.		
HCOPH51	HCOPH51RA	1133	243 - 398	3308				
HCOP109	HCOP109RA	1134	2 - 328	3309				
HCOPM42	HCOPM42R	1135	1 - 90	3310				
HCOPO34	HCOPO34R	1136	140 - 361	3311	Thr-6 to Cys-16, Tyr-40 to Lys-47, Ser-61 to Gln-66.			
HCOPO36	HCOPO36R	1137	143 - 601	3312	Arg-1 to Ser-7, Ser-25 to Phe-32, Leu-39 to Ser-44, Arg-58 to Gly-63, Ser-140 to Thr-145.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.		
HCOPO88	HCOPO88R	1138	1 - 267	3313	Pro-7 to Phe-15, Gly-26 to Arg-31, Asp-35 to Glu-43.			
HCOPV41	HCOPV41R	1139	3 - 620	3314	Arg-4 to Lys-9,			

					Asp-61 to Asn-67, Thr-69 to Lys-75, Leu-105 to Ala-112, Gly-126 to His-134, Gly-172 to Glu-179, Pro-186 to Asn-199.				
HCOPZ15	HCOPZ15R	1140	1 - 582	3315					AR096: 11, AR061: 10, AR104: 5, AR060: 5, AR089: 5, AR055: 4 L0774: 3, S0358: 2, H0509: 2, L0809: 2, H0670: 2, L0745: 2, L0779: 2, L0752: 2, H0449: 1, T0048: 1, H0355: 1, H0428: 1, H0617: 1, S0438: 1, H0529: 1, L0770: 1, L0761: 1, L0773: 1, L0803: 1, L0804: 1, L0375: 1, L0659: 1, L0382: 1, L0791: 1, S0328: 1, H0134: 1, L0743: 1, L0748: 1, L0747: 1 and L0756: 1.
HCOQA38	HCOQA38R	1141	41 - 271	3316	His-39 to Asn-45, Cys-68 to Cys-75.				
HCOQA80	HCOQA80R	1142	1 - 192	3317	His-37 to Asp-42.				
HCOQB12	HCOQB12R	1143	1 - 582	3318	Lys-6 to Asp-11, Gly-22 to Phe-27,				

HCOQB56	HCOQB56R	1144	1 - 66	3319	His-54 to Gly-63, Asp-73 to Lys-79.	H0670: 2 and H0589: 1.			
HCOQB58	HCOQB58R	1145	281 - 466	3320	Lys-1 to Gln-7.				
HCOQC71	HCOQC71R	1146	3 - 248	3321	Lys-1 to Asp-21, Lys-61 to Leu-71.	L0794: 7, L0803: 5, L0809: 5, L0666: 5, L0751: 5, L0759: 3, H0674: 2, L0768: 2, L0774: 2, L0663: 2, L0779: 2, L0758: 2, S0360: 1, H0455: 1, H0618: 1, H0263: 1, H0169: 1, H0616: 1, H0059: 1, S0112: 1, L0451: 1, L0770: 1, L0639: 1, L0648: 1, L0804: 1, L0776: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1 and L0608: 1.			
HCOQD29	HCOQD29R	1147	1 - 570	3322	Glu-66 to Arg-72, Pro-148 to Ser-154.				
HCOQD38	HCOQD38R	1148	106 - 639	3323	Met-3 to Ser-16, Cys-25 to Asp-35, Glu-42 to Lys-52, Ser-55 to Glu-63, Glu-74 to Thr-79.				

HCOQD49	HCOQD49R	1149	8 - 196	3324	Ile-81 to Ser-102, Ser-109 to Glu-118, Thr-138 to Glu-158. Asp-39 to Ser-46.	S0358: 15, S0003: 13, S0126: 11, L0754: 11, S0410: 10, H0599: 9, S0440: 9, H0529: 9, L0748: 9, H0341: 8, H0373: 8, H0591: 8, L0588: 8, L0362: 8, H0661: 7, S0007: 7, L0471: 7, L0731: 7, H0170: 6, T0042: 6, S0374: 6, H0624: 5, S0408: 5, H0013: 5, H0046: 5, H0031: 5, H0551: 5, H0144: 5, L0752: 5, H0657: 4, S0346: 4, S0214: 4, H0039: 4, H0644: 4, H0616: 4, H0413: 4, H0494: 4, H0670: 4, S0404: 4, S3014: 4, L0740: 4, L0747: 4, L0750: 4, L0753: 4, L0758: 4, L0581: 4, S0424: 4, S0040: 3, H0663: 3, H0638: 3, S0356: 3, S0360: 3, S0222: 3, H0497: 3,		
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H0575: 3, H0036: 3, S0010: 3, H0052: 3, S0438: 3, H0547: 3, S0328: 3, S0380: 3, S0206: 3, L0439: 3, L0757: 3, L0595: 3, H0423: 3, S0114: 2, S0116: 2, S0212: 2, H0484: 2, H0125: 2, S0418: 2, S0376: 2, S0444: 2, H0580: 2, H0393: 2, H0369: 2, H0370: 2, H0409: 2, H0331: 2, H0574: 2, H0486: 2, H0156: 2, H0042: 2, H0318: 2, H0581: 2, H0196: 2, H0012: 2, L0163: 2, H0083: 2, H0266: 2, H0328: 2, H0615: 2, L0194: 2, L0483: 2, H0673: 2, H0169: 2, S0364: 2, H0316: 2, H0598: 2, S0036: 2, H0090: 2, T0067: 2, S0150: 2, S0344: 2, S0422: 2, S0002: 2, L0762: 2, L0774: 2, L0666: 2, L0438: 2, H0659: 2, H0539: 2,					
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									H0444: 1, H0595: 1, L0608: 1, S0011: 1, H0668: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.			
HCOQG77	HCOQF77R	1150	1 - 357	3325								
HCOQG37	HCOQG37R	1151	3 - 395	3326								
									Pro-26 to Asn-34, Pro-50 to Pro-56, Arg-64 to Val-69, Val-97 to Lys-103.			
HCOQG47	HCOQG47R	1152	208 - 522	3327								
HCOQH46	HCOQH46R	1153	2 - 583	3328								
HCOQI14	HCOQI14R	1154	11 - 187	3329					Arg-10 to Ser-16.			
									L0777: 9, L0766: 5, L0748: 3, L0439: 3, H0599: 2, L0774: 2, L0747: 2, L0749: 2, L0779: 2, L0731: 2, H0305: 1, L0534: 1, H0675: 1, S0046: 1, H0004: 1, H0083: 1, L0456: 1, T0042: 1, S0344: 1, S0002: 1, L0369: 1, L0770: 1, L0773: 1, L0803: 1, L0776: 1, L0809: 1, L0791: 1, H0658: 1, H0670: 1, S3012: 1, L0756: 1, L0780: 1 and L0759: 1.			
HCOQI67	HCOQI67R	1155	1 - 126	3330								

HCOQJ06	HCOQJ06R	1156	8 - 457	3331				
HCOQJ07	HCOQJ07R	1157	3 - 707	3332				
HCOQJ36	HCOQJ36R	1158	149 - 328	3333			L0752: 4, H0156: 2, L0803: 2, L0776: 2, H0648: 2, L0439: 2, H0431: 1, H0575: 1, H0014: 1, T0023: 1, H0598: 1, H0591: 1, H0059: 1, L0772: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0805: 1, L0629: 1, L0789: 1, L0665: 1, L0438: 1, H0658: 1, H0670: 1 and L0779: 1.	
HCOQJ79	HCOQJ79R	1159	1 - 471	3334				
HCOQK86	HCOQK86R	1160	1 - 519	3335				
HCOQL87	HCOQL87R	1161	3 - 398	3336				
HCOQM87	HCOQM87R	1162	3 - 143	3337	Arg-1 to Val-23.			
HCOQO79	HCOQO79R	1163	2 - 613	3338	Phe-94 to Glu-102, Gln-133 to Thr-140.			
HCOQP32	HCOQP32R	1164	3 - 149	3339				
HCOQS11	HCOQS11R	1165	75 - 443	3340				
HCOQU15	HCOQU15R	1166	2 - 430	3341	Asn-29 to Gly-38, Glu-50 to Gln-58.		L0665: 4, L0743: 4, H0486: 3, H0123: 3, H0024: 3, L0528: 3, L0748: 3, H0170: 2,	

HCOQU92	HCOQU92R	1167	46 - 315	3342	Ile-3 to Arg-8, Pro-17 to Ser-22.	L0805: 7, L0776: 4, L0748: 4, H0545: 3,	L0759: 1.	H0050: 2, L0769: 2, H0670: 2, L0747: 2, L0750: 2, H0171: 1, H0556: 1, H0583: 1, H0657: 1, S0212: 1, H0208: 1, H0619: 1, S0278: 1, H0550: 1, S0222: 1, H0438: 1, H0613: 1, H0331: 1, H0013: 1, H0635: 1, H0002: 1, S0474: 1, H0581: 1, H0009: 1, L0157: 1, H0012: 1, S0025: 1, H0239: 1, H0375: 1, H0266: 1, H0598: 1, H0135: 1, H0163: 1, H0087: 1, H0551: 1, H0494: 1, S0210: 1, L0640: 1, L0763: 1, L0646: 1, L0387: 1, L0766: 1, L0805: 1, L0776: 1, L0655: 1, L0657: 1, H0144: 1, H0520: 1, H0547: 1, H0519: 1, H0689: 1, H0658: 1, H0576: 1, L0779: 1 and L0759: 1.	
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HCOQV27	HCOQV27R	1168	3 - 239	3343	Glu-1 to Lys-17, Val-25 to Asn-30, Phe-36 to Pro-42.	L0809: 1, L0793: 1, L0664: 1, S0053: 1, H0689: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, S0330: 1, H0521: 1, H0522: 1, S0404: 1, L0749: 1, L0780: 1, L0731: 1 and H0543: 1.		
						H0250: 35, L0770: 9, H0635: 6, L0483: 6, L0766: 6, H0521: 6, L0745: 6, S0003: 5, H0623: 5, L0776: 5, H0445: 5, S0408: 4, H0411: 4, H0634: 4, H0641: 4, L0598: 4, H0650: 3, H0656: 3, S0360: 3, H0574: 3, H0486: 3, H0373: 3, H0687: 3, H0591: 3, H0040: 3, L0662: 3, L0775: 3, L0665: 3, S0216: 3, L0748: 3, L0777: 3, S0134: 2, H0663: 2, S0007: 2, H0550: 2, H0013: 2, H0581: 2, H0510: 2, S0214: 2, H0615: 2, H0674: 2, S0440: 2,		

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HCOQX38	HCOQX38R	1169	23 - 439	3344	Trp-2 to Gly-7.		S0366: 1, H0087: 1, T0067: 1, H0100: 1, S0294: 1, H0633: 1, H0649: 1, S0422: 1, UNKWN: 1, L0667: 1, L0641: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0784: 1, L0805: 1, L0657: 1, L0659: 1, L0791: 1, L0792: 1, L0664: 1, S0052: 1, S0428: 1, H0699: 1, H0703: 1, H0693: 1, L0438: 1, H0547: 1, H0593: 1, H0659: 1, H0670: 1, H0522: 1, S0013: 1, H0555: 1, H0436: 1, H0576: 1, H0478: 1, S3014: 1, L0740: 1, L0746: 1, L0758: 1, L0588: 1, L0595: 1, L0361: 1, S0026: 1, S0242: 1, S0194: 1 and H0352: 1.	
HCOQY33	HCOQY33R	1170	1 - 321	3345				
HCOQY43	HCOQY43R	1171	271 - 510	3346			S0282: 1, L0021: 1, S0438: 1, L0775: 1, L0666: 1, L0663: 1.	

HCOQZ02	HCOQZ02R	1172	387 - 473	3347	Lys-1 to Lys-13.	H0659: 1, H0670: 1 and L0758: 1.		
HCOQZ86	HCOQZ86R	1173	1 - 507	3348				
HCORA95	HCORA95R	1174	2 - 136	3349	Pro-1 to Phe-15..			
HCORB20	HCORB20R	1175	14 - 292	3350	Val-1 to Gly-9.			
HCORB43	HCORB43R	1176	1 - 303	3351				
HCORB66	HCORB66R	1177	3 - 611	3352	Asn-1 to Gly-8.			
HCORI18	HCORI18R	1178	105 - 317	3353	Asn-7 to Pro-33, Gly-40 to Gly-46, Tyr-49 to Tyr-71.	L0770: 3, H0685: 1, H0581: 1, H0553: 1, S0150: 1 and H0670: 1.		
HCORI25	HCORI25R	1179	3 - 419	3354	Leu-35 to Tyr-40.	L0754: 14, H0052: 13, L0748: 13, H0556: 12, L0591: 12, L0755: 11, L0752: 10, L0731: 9, L0601: 9, L0439: 8, L0777: 8, L0596: 8, H0046: 7, H0521: 7, L0758: 7, H0599: 6, H0622: 6, S0002: 6, L0646: 6, L0593: 6, H0265: 5, S0474: 5, L0776: 5, L0666: 5, L0741: 5, L0747: 5, S0026: 5, H0543: 5, H0619: 4, S0222: 4, H0013: 4, H0590: 4, H0544: 4, H0620: 4, H0124: 4, H0038: 4,		

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HCQCR82	HCQCR82R	1180	48 - 206	3355	Glu-9 to Gly-17.					
HCRME42	HCRME42R	1181	1 - 537	3356	Lys-14 to Gly-26, Glu-33 to Arg-44, Pro-64 to Pro-69, Pro-79 to Asn-88, Thr-109 to Pro-123.					
HDABR53	HDABR53R	1182	2 - 463	3357						
HDLBE03	HDLBE03R	1183	158 - 325	3358	Ala-17 to Asn-23.					
HDPFI26	HDPFI26R	1184	37 - 303	3359	Ser-1 to Thr-8.					

HDTAQ74	HDTAQ74R	1185	133 - 414	3360	Glu-17 to Ala-32, Arg-39 to Trp-47.	L0759: 10, L0774: 3, H0648: 3, H0686: 2, S0360: 2, L0622: 2, H0486: 2, L0521: 2, L0775: 2, H0659: 2, S0328: 2, L0779: 2, L0755: 2, H0341: 1, S0354: 1, S0358: 1, H0351: 1, S0222: 1, L0021: 1, H0025: 1, L0105: 1, T0115: 1, H0545: 1, H0571: 1, H0050: 1, L0471: 1, S6028: 1, S0003: 1, H0031: 1, H0316: 1, H0038: 1, H0087: 1, H0494: 1, H0509: 1, S0142: 1, L0520: 1, L0769: 1, L0638: 1, L0772: 1, L0794: 1, L0803: 1, L0804: 1, L0382: 1, L0367: 1, L0665: 1, S0374: 1, H0690: 1, H0684: 1, S0044: 1, S3012: 1, S0027: 1, L0744: 1, L0777: 1, L0758: 1, L0604: 1, S0026: 1 and		
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HDTBP08	HDTBP08R	1186	231 - 431	3361	Leu-21 to Ala-27, Pro-48 to Gly-55.	S0276: 1.		
HDTDA21	HDTDA21R	1187	207 - 431	3362	Ala-14 to Leu-20.			
HDTDB88	HDTDB88R	1188	102 - 215	3363	Tyr-25 to Phe-32.			
HDTJR38	HDTJR38R	1189	179 - 364	3364		L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3,		

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HE8QX44	HE8QX44R	1190	1 - 288	3365	Thr-8 to Thr-22, Phe-42 to Lys-51, Arg-60 to Lys-69.								
HE9QU94	HE9QU94R	1191	3 - 170	3366	Arg-1 to Cys-23, Trp-25 to Ser-35.								
HEAHF02	HEAHF02R	1192	32 - 376	3367	Ser-10 to Thr-34, Ser-37 to Asn-89.								
HEEAY40	HEEAY40R	1193	3 - 128	3368	Thr-15 to Ser-26.								

HEGAF68	HEGAF68R	1194	45 - 221	3369	Glu-9 to Gly-17.			
HEOSP11	HEOSP11R	1195	96 - 395	3370	Pro-13 to Leu-25.	H0457: 14, L0751: 13, H0617: 8, L0761: 7, L0666: 6, L0664: 6, L0665: 6, H0593: 6, L0662: 5, L0748: 5, H0052: 4, H0014: 4, H0529: 4, L0655: 4, L0809: 4, L0663: 4, H0436: 4, L0747: 4, L0758: 4, H0592: 3, H0587: 3, H0581: 3, L0763: 3, L0769: 3, L0659: 3, H0539: 3, L0779: 3, S0434: 3, H0506: 3, H0295: 2, H0650: 2, H0657: 2, L0005: 2, S0356: 2, S0442: 2, S0354: 2, S0360: 2, H0580: 2, H0733: 2, H0553: 2, H0135: 2, H0560: 2, H0625: 2, H0647: 2, L0374: 2, L0657: 2, L0647: 2, H0682: 2, H0672: 2, H0521: 2, S0028: 2, L0743: 2, L0749: 2, L0752: 2, L0755: 2, L0759: 2, L0593: 2, S0446: 2,		

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HFABK01	HFABK01R	1196	26 - 112	3371	Asn-4 to Tyr-9.					
HFADS75	HFADS75R	1197	102 - 365	3372	Ala-16 to Arg-26, Pro-68 to Gly-78.					
HFIBG63	HFIBG63R	1198	2 - 409	3373						
HFJUB15	HFJUB15R	1199	32 - 151	3374						
HFIXK57	HFIXK57R	1200	2 - 211	3375		H0594: 18, L0777: 10, L0766: 6, H0595: 6, H0170: 5, H0373: 5.				

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HFIZQ64	HFIZQ64R	1201	18 - 137	3376	Glu-27 to Leu-36.	L0761: 1, L0667: 1, L0630: 1, L0372: 1, L0764: 1, L0521: 1, L0533: 1, L0775: 1, L0651: 1, L0806: 1, L0655: 1, L0656: 1, S0374: 1, H0547: 1, S0328: 1, H0539: 1, H0696: 1, L0741: 1, L0744: 1, L0740: 1, L0754: 1, L0747: 1, L0750: 1, L0753: 1, L0759: 1, S0031: 1, L0485: 1, L0362: 1, S0242: 1, H0543: 1 and S0398: 1.		
HFKKK36	HFKKK36R	1202	3 - 86	3377	Pro-3 to Tyr-22.			
HFPEC93	HFPEC93R	1203	75 - 233	3378	Lys-17 to Thr-23.			
HFPIX37	HFPIX37R	1204	1 - 270	3379	Pro-75 to Cys-89.	AR089: 4, AR096: 3, AR033: 3, AR060: 3, AR061: 1, AR104: 1, AR055: 1, AR053: 0, AR039: 0, AR052: 0 H0583: 1, H0662: 1, S0222: 1, S0049: 1, H0272: 1, H0670: 1, H0521: 1, H0555: 1 and S0436: 1.		
HFTDK36	HFTDK36R	1205	18 - 314	3380	Cys-5 to Pro-21.			

					His-66 to Leu-77, Gln-80 to Ala-88, Tyr-92 to Ser-98.				
HFVIB28	HFVIB28R	1206	11 - 250	3381					
HFVGR60	HFVGR60R	1207	353 - 57	3382		S0001: 1			
HHAUD07	HHAUD07R	1208	304 - 426	3383	Val-24 to Leu-31.				
HHBFO21	HHBFO21R	1209	54 - 230	3384					
HHEVG50	HHEVG50R	1210	1 - 474	3385					
HHFGQ65	HHFGQ65RA	1211	53 - 277	3386	Arg-2 to Ser-7.				
HHFOE48	HHFOE48RP 00B	1212	181 - 426	3387		H0666: 13, S0358: 10, H0620: 10, L0750: 8, L0747: 7, L0731: 7, H0135: 5, L0659: 5, L0740: 5, L0757: 5, S0360: 4, H0123: 4, S0022: 4, L0666: 4, L0665: 4, S0028: 4, L0748: 4, L0777: 4, L0588: 4, H0265: 3, S0420: 3, H0208: 3, H0545: 3, H0046: 3, H0024: 3, H0284: 3, H0100: 3, L0650: 3, L0375: 3, L0382: 3, H0651: 3, L0755: 3, H0352: 3, S0278: 2, H0592: 2, H0333: 2, H0253: 2, H0544: 2, H0081: 2, H0012: 2, H0266: 2, H0286: 2,			

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HHSFG15	HHSFG15R	1213	3 - 62	3388			H0615: 1, H0688: 1, H0031: 1, H0634: 1, H0087: 1, H0334: 1, H0633: 1, H0646: 1, L0772: 1, L0800: 1, L0643: 1, L0764: 1, L0662: 1, L0767: 1, L0775: 1, L0651: 1, L0806: 1, L0805: 1, L0776: 1, L0656: 1, L0783: 1, L0383: 1, L0543: 1, L0789: 1, L0663: 1, H0593: 1, H0684: 1, H0659: 1, H0658: 1, H0660: 1, H0709: 1, S0152: 1, H0521: 1, H0627: 1, L0611: 1, L0439: 1, L0745: 1, L0759: 1, L0593: 1, L0361: 1, L0603: 1, S0026: 1, H0667: 1 and H0506: 1.		
HHSGP15	HHSGP15R	1214	77 - 142	3389					
HHSGQ17	HHSGQ17R	1215	112 - 270	3390					
HKBAD05	HKBAD05R	1216	49 - 315	3391	Pro-13 to Leu-18, Leu-37 to Arg-42, Lys-65 to Gly-77..				
HKZAD21	HKZAD21R	1217	244 - 405	3392					
HKZAE07	HKZAE07R	1218	1 - 138	3393	Val-40 to Tyr-46.				L0752: 11, L0662: 9,

	L0596: 9, L0659: 8, L0665: 7, L0766: 5, L0750: 5, L0521: 4, L0740: 4, L0757: 4, L0771: 3, L0775: 3, L0809: 3, L0666: 3, L0664: 3, H0648: 3, L0755: 3, L0758: 3, L0591: 3, L0785: 2, L0717: 2, H0036: 2, H0052: 2, H0529: 2, L0769: 2, L0637: 2, L0646: 2, L0765: 2, L0651: 2, L0653: 2, L0776: 2, L0655: 2, L0663: 2, H0682: 2, L0748: 2, L0439: 2, L0731: 2, L0759: 2, L0593: 2, L0595: 2, L0601: 2, H0686: 1, S0134: 1, L0778: 1, H0484: 1, H0661: 1, H0662: 1, H0393: 1, H0643: 1, H0002: 1, H0599: 1, H0318: 1, S0049: 1, H0251: 1, L0040: 1, H0545: 1, L0041: 1, N0006: 1, N0007: 1, S0388: 1, L0483: 1, H0606: 1,				
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HKZAG45	HKZAG45RA	1219	79 - 327	3394	Gly-1 to Val-7, Lys-15 to Leu-25, Pro-52 to Cys-57.				
HKZAI14	HKZAI14R	1220	3 - 368	3395	Lys-47 to Glu-52, Ala-71 to Asp-76, Asp-89 to Ser-110.				

HKZAI68	HKZAI68RA	1221	2 - 79	3396	Ser-9 to Ala-15.	S0474: 22, S0360: 13, H0556: 11, S0358: 11, L0747: 11, H0087: 10, S0126: 10, H0124: 9, S0410: 8, S0278: 8, H0024: 8, L0588: 8, S0206: 7, S0046: 6, L0731: 6, H0543: 6, H0265: 5, S0212: 5, S0045: 5, H0620: 5, H0594: 5, H0090: 5, H0063: 5, H0551: 5, T0042: 5, L0530: 5, H0144: 5, H0696: 5, S3014: 5, L0758: 5, S0192: 5, S0116: 4, H0549: 4, H0013: 4, H0530: 4, H0544: 4, H0081: 4, L0471: 4, H0012: 4, H0644: 4, H0163: 4, H0412: 4, H0100: 4, L0769: 4, L0771: 4, S0027: 4, L0740: 4, L0757: 4, L0605: 4, H0423: 4, H0624: 3, H0713: 3, S0418: 3, S0444: 3, S0408: 3, H0251: 3, H0545: 3, S0051: 3, H0083: 3, H0290: 3,		
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HKZAQ39	HKZAQ39R	1222	1 - 480	3397	Ser-1 to Lys-6, Asp-48 to Gly-55, Pro-68 to Phe-76, Pro-83 to Gly-89, Asn-100 to Asp- 108, Glu-134 to Lys-141, Lys-144 to Asp-160.					
HKZAR58	HKZAR58R	1223	3 - 266	3398	Met-41 to Gln-47.					
HKZAS59	HKZAS59R	1224	1 - 462	3399	Gln-54 to Leu-59, Glu-70 to Lys-76, Lys-147 to Ser-154.					
HKZAS64	HKZAS64R	1225	1 - 276	3400	Asp-1 to His-35, Pro-67 to His-75.					
HKZAS84	HKZAS84R	1226	2 - 103	3401	Ser-11 to Gly-18.		L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4,			

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HKZAV69	HKZAV69R	1227	2 - 412	3402	Val-6 to Lys-13, Tyr-23 to Asn-33, Lys-46 to Lys-51, Leu-75 to Asn-85, Asp-101 to Glu-106.						
HKZAV72	HKZAV72R	1228	2 - 163	3403	Cys-1 to Val-33, Ala-47 to Glu-54.						
HKZAX48	HKZAX48R	1229	137 - 361	3404		L0771: 3, L0021: 1, S0036: 1, H0689: 1 and					

HKZBB22	HKZBB22R	1230	2 - 520	3405	Arg-5 to Leu-11, Arg-32 to Lys-39, Thr-117 to Lys-122.	H0659: 1.		
HKZBS89	HKZBS89R	1231	1 - 381	3406	Gln-41 to His-48, Leu-55 to Gly-61, Pro-71 to Gly-79, Ala-104 to His-111.			
HLDQQ80	HLDQQ80R	1232	2 - 112	3407				
HLDXE19	HLDXE19R	1233	2 - 190	3408	Ala-2 to Lys-12.			
HLICD55	HLICD55R	1234	2 - 151	3409				
HLJB132	HLJB132R	1235	430 - 648	3410				
HLJB137	HLJB137R	1236	144 - 398	3411	Pro-77 to Lys-85.			
HLTHA47	HLTHA47R	1237	118 - 411	3412	Pro-82 to Lys-92.			
HLTJA50	HLTJA50R	1238	331 - 585	3413				
HLWAC95	HLWAC95R	1239	2 - 337	3414	Gln-20 to Ser-30.			
HLWDZ38	HLWDZ38R	1240	57 - 275	3415	Phe-45 to Ser-51.			
HLYDI57	HLYDI57R	1241	2 - 238	3416				
HMCFO19	HMCFO19R	1242	131 - 199	3417				
HMCIZ44	HMCIZ44R	1243	67 - 225	3418	Lys-17 to Thr-23.			
HMCJE25	HMCJE25R	1244	3 - 161	3419	Met-40 to Thr-52.			
HMSPB25	HMSPB25R	1245	324 - 145	3420				
HMVBB04	HMVBB04R	1246	136 - 276	3421	Lys-18 to Lys-30.			
HNAAE01	HNAAE01R	1247	2 - 196	3422	Lys-18 to Lys-30.			
HNBUP08	HNBUP08R	1248	127 - 474	3423	Pro-37 to Arg-46, Gln-75 to Gly-81, Pro-83 to Ser-89.	L0766: 5, L0751: 4, H0662: 2, H0253: 2, L0754: 2, L0750: 2, H0170: 1, H0587: 1, H0327: 1, H0688: 1,		

[illegible]

HNOAE50	HNOAE50R	1260	89 - 577	3435	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Glu-140.			
HNOAE65	HNOAE65R	1261	2 - 535	3436	Pro-13 to Arg-21, Ser-42 to Phe-52, Lys-69 to Val-77, Ile-82 to Glu-87, Gly-93 to Gln-99, Val-118 to Asn-124, Lys-143 to Leu-152, Arg-154 to Glu-178.			
HNOAF22	HNOAF22R	1262	67 - 555	3437	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Arg-139, Arg-145 to Leu-153.			
HNOAF36	HNOAF36R	1263	2 - 145	3438	Arg-11 to Pro-17.	H0651: 2		
HNOAG34	HNOAG34R	1264	42 - 362	3439				
HNOAG94	HNOAG94R	1265	28 - 177	3440				
HNOAH67	HNOAH67R	1266	2 - 364	3441				
HNOAJ67	HNOAJ67R	1267	3 - 524	3442	Cys-2 to Gly-7.			
HNOAJ76	HNOAJ76R	1268	351 - 536	3443	Trp-6 to Glu-12.	H0134: 9, L0771: 8,		

L0748: 7, L0731: 6, L0591: 6, L0592: 6, L0770: 5, L0747: 5, L0749: 5, L0750: 5, H0136: 5, H0050: 4, H0625: 4, H0529: 4, L0769: 4, L0752: 4, L0758: 4, S0007: 3, S0045: 3, H0591: 3, H0561: 3, L0761: 3, L0645: 3, L0766: 3, L0655: 3, L0657: 3, L0666: 3, H0696: 3, H0436: 3, L0754: 3, L0756: 3, L0755: 3, H0543: 3, H0686: 2, H0125: 2, S0420: 2, S0376: 2, H0351: 2, H0581: 2, S0049: 2, H0052: 2, L0163: 2, H0428: 2, H0090: 2, H0040: 2, T0041: 2, H0494: 2, H0646: 2, L0763: 2, L0521: 2, L0776: 2, L0665: 2, H0144: 2, L0751: 2, L0745: 2, S0031: 2, L0581: 2, L0608: 2, H0170: 1, H0171: 1, H0394: 1, S0114: 1,
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S0218: 1, H0656: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, H0619: 1, H0393: 1, L0717: 1, H0497: 1, H0486: 1, T0039: 1, T0114: 1, H0013: 1, H0244: 1, H0635: 1, H0427: 1, H0318: 1, H0178: 1, L0157: 1, H0081: 1, S0051: 1, H0292: 1, S0003: 1, L0483: 1, H0316: 1, H0135: 1, H0634: 1, H0551: 1, H0560: 1, S0440: 1, H0538: 1, L0640: 1, L0796: 1, L0667: 1, L0772: 1, L0373: 1, L0764: 1, L0662: 1, L0363: 1, L0768: 1, L0649: 1, L0388: 1, L0650: 1, L0774: 1, L0775: 1, L0375: 1, L0524: 1, L0653: 1, L0659: 1, L0663: 1, L0664: 1, S0053: 1, H0520: 1, S0126: 1, H0435: 1, H0660: 1, H0672: 1, H0651: 1, H0521: 1,
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HNOAK11	HNOAK11R	1269	2 - 157	3444					
HNOAL51	HNOAL51R	1270	43 - 207	3445					
HNOAN85	HNOAN85R	1271	1 - 180	3446					
HNOAO59	HNOAO59R	1272	403 - 759	3447	Phe-74 to Pro-81.				
HNOAO71	HNOAO71R	1273	2 - 283	3448	Gly-1 to Leu-6, Pro-47 to Asp-52, Lys-63 to Glu-68.				
HNOAP21	HNOAP21R	1274	2 - 730	3449	Arg-9 to Arg-27, Gly-43 to Lys-48, Asp-61 to Ser-67, Ala-124 to Gly-130, Thr-146 to Lys-151, Phe-165 to Lys-170.				
HNOAQ24	HNOAQ24R	1275	2 - 664	3450		L0666: 10, H0510: 8, H0046: 6, H0617: 6, S0051: 4, H0135: 4, L0776: 4, L0439: 4, H0509: 3, L0665: 3, L0747: 3, H0445: 3, H0662: 2, S0420: 2, S0222: 2, H0574: 2, H0632: 2, H0427: 2,			

	H0575: 2, H0618: 2, H0253: 2, H0052: 2, H0545: 2, H0123: 2, H0687: 2, H0428: 2, H0100: 2, L0662: 2, L0806: 2, L0657: 2, L0659: 2, L0664: 2, H0691: 2, H0651: 2, L0744: 2, L0592: 2, L0599: 2, L0601: 2, S0040: 1, S0212: 1, H0483: 1, H0255: 1, H0663: 1, S0354: 1, H0208: 1, S6022: 1, H0441: 1, H0357: 1, H0455: 1, H0592: 1, H0331: 1, N0009: 1, H0013: 1, S0280: 1, H0349: 1, H0042: 1, S0049: 1, H0327: 1, H0544: 1, H0178: 1, H0012: 1, H0246: 1, H0024: 1, H0071: 1, H0107: 1, S6028: 1, H0266: 1, T0023: 1, T0006: 1, H0124: 1, S0036: 1, H0264: 1, H0059: 1, H0633: 1, H0647: 1, S0142: 1, L0369: 1, L0371: 1,	
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HNOAQ47	HNOAQ47R	1276	1 - 642	3451	Ser-15 to Glu-23, Val-33 to Gly-40, Arg-47 to Pro-59, Ser-64 to Phe-70, Gly-92 to Lys-97, Lys-155 to Glu-166.						
HNOAR74	HNOAR74R	1277	122 - 400	3452	Pro-5 to Gly-11, Ser-20 to Ser-27.			L0794: 3, H0657: 2, L0766: 2, L0783: 2, L0789: 2, L0777: 2, L0759: 2, H0656: 1, S0116: 1, S0444: 1, S0360: 1, H0431: 1, S0010: 1, H0052: 1, H0596: 1, H0687: 1,			

HNOAR85	HNOAR85R	1278	278 - 562	3453	Ser-48 to Leu-56, Ser-70 to Val-75, Thr-83 to Ala-92.	L0758: 6, H0031: 4, H0341: 3, S0022: 3, S0376: 2, H0586: 2, H0156: 2, H0575: 2, L0769: 2, L0803: 2, L0655: 2, L0809: 2, H0522: 2, S0027: 2, H0445: 2, S0412: 2, H0656: 1, S0358: 1, S0360: 1, H0574: 1, H0486: 1, H0013: 1, H0318: 1, H0327: 1, L0157: 1, H0015: 1, H0083: 1, S0003: 1, S0214: 1, H0039: 1, H0673: 1, H0591: 1, T0067: 1, H0412: 1, H0494: 1, H0529: 1,			H0634: 1, L0637: 1, L0648: 1, L0649: 1, L0804: 1, L0774: 1, L0776: 1, L0655: 1, L0606: 1, L0809: 1, H0144: 1, H0698: 1, L0438: 1, H0690: 1, H0660: 1, H0651: 1, L0747: 1, L0749: 1, L0758: 1, L0601: 1, S0242: 1, S0196: 1 and H0543: 1.		
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HNOAS07	HNOAS07R	1279	84 - 521	3454		Asn-80 to Gly-86, Glu-133 to Arg-138.				
HNOAS36	HNOAS36R	1280	3 - 254	3455		Leu-1 to Thr-7, Pro-39 to Ser-48, Trp-62 to Thr-68.				
HNOAS92	HNOAS92R	1281	2 - 385	3456		Pro-28 to Tyr-37, Leu-52 to Trp-57, Lys-109 to Leu-114.	H0457: 4, H0441: 3, H0393: 2, H0052: 2, H0620: 2, S0144: 2, H0521: 2, H0341: 1, S0358: 1, H0587: 1, H0632: 1, H0581: 1, H0309: 1, L0471: 1, H0622: 1, H0424: 1, H0213: 1, S0366: 1, H0163: 1, H0132: 1, S0142: 1, H0529: 1, H0547: 1, H0651: 1,			

HNOAT40	HNOAT40R	1282	96 - 317	3457		S3014: 1, L0748: 1, L0777: 1 and L0599: 1. L0794: 5, H0052: 4, H0457: 4, L0438: 4, H0651: 4, H0581: 3, L0777: 3, S0116: 2, S0007: 2, S0222: 2, S0049: 2, N0006: 2, L0163: 2, S6028: 2, L0351: 2, H0130: 2, L0638: 2, L0803: 2, L0805: 2, L0439: 2, L0754: 2, L0750: 2, L0755: 2, H0580: 1, H0645: 1, H0486: 1, H0013: 1, S0346: 1, H0009: 1, L0157: 1, H0567: 1, H0562: 1, H0050: 1, T0010: 1, H0606: 1, H0040: 1, H0063: 1, S0210: 1, L0761: 1, L0667: 1, L0774: 1, L0526: 1, L0532: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, H0576: 1, L0753: 1, L0758: 1, L0759: 1, L0593: 1, L0366: 1, H0543: 1 and S0462: 1.		
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HNOAT76	HNOAT76R	1283	2 - 187	3458				
HNOAV91	HNOAV91R	1284	2 - 439	3459	Lys-28 to Tyr-49, Arg-75 to Ala-83, Thr-90 to Ala-95, Arg-107 to Asp-114, Arg-137 to Ser-146.			
HNOBD17	HNOBD17R	1285	98 - 316	3460				
HNOBE83	HNOBE83R	1286	2 - 607	3461	Arg-1 to Gly-6, Lys-21 to Gly-29, Gln-51 to Gly-56, Pro-82 to Asp-90, Lys-175 to Ser-180.	L0747: 16, H0651: 10, H0561: 9, L0758: 8, H0046: 7, L0663: 7, S0026: 7, H0656: 6, H0393: 6, H0494: 6, L0774: 6, L0659: 6, L0665: 6, L0750: 6, L0731: 6, L0596: 6, H0543: 6, H0341: 5, H0575: 5, H0529: 5, L0662: 5, L0655: 5, H0539: 5, L0439: 5, L0752: 5, S0114: 4, H0657: 4, H0351: 4, H0581: 4, H0551: 4, H0560: 4, S0372: 4, L0769: 4, L0764: 4, L0776: 4, H0144: 4, H0660: 4, H0648: 4, H0672: 4, S0028: 4, L0749: 4, L0362: 4, H0580: 3, H0497: 3, H0486: 3, H0318: 3,		

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HNOBV55	HNOBV55R A	1287		111 - 506	3462	Pro-14 to Gly-22, Ile-31 to Ala-36, Lys-53 to Ile-65.	H0633: 1, S0208: 1, S0422: 1, S0426: 1, L0520: 1, L0762: 1, L0770: 1, L0796: 1, L0630: 1, L0646: 1, L0773: 1, L0766: 1, L0381: 1, L0388: 1, L0804: 1, L0650: 1, L0375: 1, L0651: 1, L0784: 1, L0656: 1, L0518: 1, L0519: 1, L0530: 1, L0368: 1, S0053: 1, S0374: 1, H0547: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, H0518: 1, S0013: 1, H0704: 1, S0044: 1, H0214: 1, S0404: 1, S0406: 1, H0555: 1, H0576: 1, S0392: 1, L0751: 1, S0031: 1, H0444: 1, S0106: 1, S0011: 1, H0667: 1, S0192: 1, S0242: 1, S0276: 1, L0697: 1 and L0360: 1.		
HNOCE63	HNOCE63R	1288		2 - 394	3463	Val-2 to Leu-20.			

HNOCL43	HNOCL43R	1289	2 - 193	3464				
HNOCN02	HNOCN02R	1290	1 - 624	3465				
HNOCN10	HNOCN10R	1291	1 - 453	3466				H0556: 11, H0265: 9, H0012: 4, H0616: 4, H0393: 3, H0620: 3, L0163: 3, H0135: 3, S0002: 3, H0651: 3, L0596: 3, H0542: 3, H0543: 3, S0418: 2, S0045: 2, H0266: 2, S0150: 2, H0521: 2, L0591: 2, S0040: 1, H0341: 1, H0663: 1, S0354: 1, S0358: 1, S0046: 1, S0222: 1, H0586: 1, H0486: 1, H0635: 1, H0618: 1, H0581: 1, S0049: 1, H0263: 1, T0103: 1, T0110: 1, H0009: 1, T0003: 1, H0373: 1, S0051: 1, S0336: 1, H0290: 1, H0286: 1, H0328: 1, H0622: 1, H0553: 1, H0124: 1, H0090: 1, S0038: 1, H0100: 1, T0042: 1, S0015: 1, H0560: 1, H0509: 1, H0130: 1, L0654: 1, H0144: 1,

							L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0435: 1, L0602: 1, S0332: 1, H0522: 1, H0134: 1, S014: 1, L0439: 1, H0445: 1, S0434: 1, L0485: 1, L0604: 1, L0593: 1, L0594: 1, L0601: 1, H0422: 1 and S0398: 1.			
HNOCR44	HNOCR44R	1292	3 - 581	3467	Pro-1 to Lys-10, Phe-31 to Asn-37, Gln-42 to Leu-50, Arg-58 to Gln-65, Leu-86 to Ala-91, Tyr-101 to Ala-111.					
HNOCU03	HNOCU03R	1293	1 - 258	3468	Glu-1 to Asp-6.					
HNODD77	HNODD77R	1294	204 - 407	3469						
HNODG11	HNODG11R	1295	63 - 320	3470	Ser-47 to Ile-53.					
HNODM92	HNODM92R	1296	269 - 583	3471	Gly-35 to Glu-41.					
HNODP28	HNODP28R	1297	480 - 707	3472						
HNOJA93	HNOJA93R	1298	1 - 453	3473	Gly-13 to Lys-20, Ala-26 to Lys-32, Ala-83 to Leu-88, Gly-128 to Val-135, Phe-142 to Asn-151.					
HNOJB10	HNOJB10R	1299	2 - 391	3474		S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3,				

L0776: 3, S0374: 3, L0748: 3, L0755: 3, L0588: 3, H0422: 3, H0685: 2, H0549: 2, H0550: 2, H0632: 2, H0546: 2, H0424: 2, H0163: 2, H0551: 2, L0665: 2, H0593: 2, H0660: 2, S0330: 2, L0747: 2, L0749: 2, L0777: 2, L0757: 2, S0031: 2, H0556: 1, H0686: 1, H0295: 1, S0430: 1, H0657: 1, H0341: 1, H0662: 1, S0278: 1, H0282: 1, H0592: 1, H0586: 1, H0486: 1, T0039: 1, T0109: 1, H0004: 1, H0581: 1, H0309: 1, H0596: 1, T0110: 1, H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0413: 1, H0059: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, H0529: 1, L0762: 1,	
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HNOJB57	HNOJB57R	1300	2 - 355	3475	Arg-8 to Gln-18, Thr-24 to Gly-35, Lys-53 to Gly-61, Pro-77 to Cys-82, Pro-103 to Gln-117.					
HNOJD14	HNOJD14R	1301	2 - 439	3476						
HNOJF20	HNOJF20R	1302	10 - 165	3477	Leu-14 to Arg-20, Ser-29 to Ser-38, Pro-43 to Gly-52.					
HNOJG05	HNOJG05R	1303	288 - 572	3478	Ile-34 to Ala-40.					
HNOJH48	HNOJH48R	1304	2 - 283	3479	Arg-70 to Ser-78.	L0748: 17, L0749: 13,				

L0666: 9, H0547: 8, L0758: 8, S0358: 7, S0003: 7, L0754: 7, L0485: 7, S0280: 6, H0038: 6, H0521: 6, S3014: 6, L0777: 6, L0755: 6, H0068: 5, L0659: 5, L0665: 5, L0744: 5, L0740: 5, L0591: 5, H0657: 4, H0656: 4, S0116: 4, H0318: 4, H0266: 4, H0687: 4, H0031: 4, H0040: 4, S0002: 4, S0206: 4, L0752: 4, H0445: 4, H0542: 4, H0423: 4, H0497: 3, H0013: 3, H0427: 3, H0046: 3, H0014: 3, H0615: 3, L0142: 3, S0036: 3, H0090: 3, H0551: 3, S0440: 3, L0662: 3, L0767: 3, H0696: 3, S0027: 3, S0028: 3, L0731: 3, L0362: 3, S0196: 3, H0662: 2, H0638: 2, H0580: 2, S0045: 2, S0222: 2, H0587: 2, H0486: 2, H0706: 2,
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HNOJH52	HNOJH52R	1305	3 - 200	3480								
HNOJI82	HNOJI82R	1306	1 - 489	3481	Lys-36 to Gln-48, Gln-56 to Ser-72, Gly-82 to Val-105, Lys-114 to Lys-120, Ser-122 to Cys-133.							
HNOJI85	HNOJI85R	1307	1 - 552	3482	Ala-1 to Ser-6.	L0754: 5, L0731: 4, L0748: 3, L0750: 3, H0411: 2, H0012: 2, H0687: 2, H0644: 2, L0803: 2, H0550: 1, L0021: 1, H0599: 1, L0022: 1, H0042: 1,						

							H0575: 1, H0150: 1, H0620: 1, T0003: 1, H0673: 1, L0662: 1, L0650: 1, L0774: 1, L0375: 1, L0807: 1, L0515: 1, L0659: 1, L0666: 1, S0374: 1, H0694: 1, L0747: 1, L0749: 1, L0779: 1 and L0755: 1.			
HNOJJ20	HNOJJ20R	1308	1 - 261	3483		Lys-19 to Asn-25, Pro-61 to Lys-66.				
HNOJJ26	HNOJJ26R	1309	2 - 385	3484						
HNOJK66	HNOJK66R	1310	1 - 462	3485		Ser-27 to Gly-38, Ser-63 to Trp-72, Trp-79 to Asn-84, Arg-133 to Trp-139.	L0588: 14, S0046: 13, S0045: 12, T0049: 7, H0599: 7, L0662: 7, L0599: 7, H0427: 6, T0048: 6, H0575: 5, L0747: 5, H0254: 4, H0618: 4, H0617: 4, H0124: 4, H0413: 4, H0052: 3, H0024: 3, H0553: 3, H0269: 3, H0412: 3, H0056: 3, H0623: 3, L0764: 3, L0659: 3, L0809: 3, L0666: 3, L0750: 3, L0758: 3, L0600: 3, S0001: 2, H0255: 2, H0661: 2, H0619: 2,			

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HNOJL59	HNOJL59R	1311	204 - 479	3486			Glu-1 to Ser-9, Pro-60 to Gln-66.			
HNOJM64	HNOJM64R	1312	3 - 428	3487			Gly-105 to Glu-110, Ala-133 to Tyr-142.			
HNOJO55	HNOJO55R	1313	426 - 265	3488			Trp-42 to Glu-50.			
HNOJP42	HNOJP42R	1314	12 - 302	3489			Phe-164 to Leu-170.			
HNOJQ22	HNOJQ22R	1315	1 - 510	3490			Gln-30 to Gly-36, Lys-43 to Lys-54, Thr-73 to Ile-79.			
HNOKA20	HNOKA20R	1316	2 - 268	3491						
HNOKD74	HNOKD74R	1317	2 - 85	3492						
HNOKG34	HNOKG34R	1318	1 - 510	3493			Lys-17 to Leu-27, Thr-39 to Leu-44, Asp-62 to Gly-70, Arg-89 to Asp-94, Arg-102 to Gly-113, Lys-127 to Glu-132, Thr-152 to Arg-160.			
HNOKG69	HNOKG69R	1319	188 - 418	3494						
HNOKG71	HNOKG71R	1320	2 - 331	3495			Gly-8 to Ala-15, Leu-33 to His-50,			

HNOKH94	HNOKH94R	1321	214 - 411	3496	Phe-59 to Gly-64, Gly-70 to Gly-84. Thr-20 to Asp-27, His-39 to Thr-44.	L0666: 11, S0358: 8, L0752: 8, L0749: 5, L0362: 5, L0771: 4, L0803: 4, L0528: 4, L0664: 4, L0740: 4, L0754: 4, L0599: 4, L0769: 3, L0662: 3, L0657: 3, L0659: 3, L0663: 3, L0748: 3, L0750: 3, L0757: 3, L0758: 3, H0171: 2, S0360: 2, H0574: 2, H0251: 2, L0483: 2, H0412: 2, H0509: 2, L0770: 2, L0774: 2, L0775: 2, L0665: 2, H0690: 2, S0330: 2, L0755: 2, L0731: 2, L0595: 2, H0624: 1, H0170: 1, H0685: 1, H0656: 1, H0663: 1, H0305: 1, H0589: 1, S0356: 1, S0354: 1, H0580: 1, S0132: 1, S0300: 1, L0717: 1, H0331: 1, H0013: 1, H0108: 1, L0105: 1, H0052: 1, H0546: 1.		
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HNOKI06	HNOKI06R	1322	3 - 419	3497	Asp-36 to Glu-46, Gln-52 to Ile-61, Leu-76 to Lys-87, Asn-100 to Val-108, Ser-120 to Gln-128.	H0123: 1, H0024: 1, H0373: 1, H0266: 1, H0687: 1, L0142: 1, H0628: 1, H0673: 1, H0598: 1, H0038: 1, H0529: 1, L0763: 1, L0637: 1, L0761: 1, L0646: 1, L0641: 1, L0768: 1, L0804: 1, L0650: 1, L0776: 1, L0656: 1, L0526: 1, L0367: 1, S0374: 1, H0691: 1, H0519: 1, H0682: 1, H0684: 1, H0648: 1, L0602: 1, S0454: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0753: 1, L0759: 1, S0434: 1, L0591: 1, L0592: 1, L0608: 1, L0366: 1, S0194: 1 and H0542: 1. S0410: 13, L0766: 5, H0657: 4, S0422: 4, H0547: 4, S0408: 3, L0758: 3, S0444: 2, H0587: 2, H0486: 2, H0013: 2, H0581: 2, L0471: 2, L0764: 2, L0794: 2, L0666: 2.		
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HNOKI89	HNOKI89R	1323	2 - 370	3498	Glu-1 to Pro-7, Asp-25 to Leu-31, Arg-54 to Lys-73.	L0663: 2, H0520: 2, H0660: 2, H0436: 2, L0740: 2, L0751: 2, H0445: 2, S0436: 2, S0400: 1, H0351: 1, H0411: 1, H0632: 1, H0575: 1, S0010: 1, H0318: 1, H0596: 1, T0110: 1, H0545: 1, H0046: 1, H0567: 1, H0373: 1, S6028: 1, H0687: 1, H0031: 1, H0553: 1, H0617: 1, H0264: 1, S0386: 1, S0440: 1, H0646: 1, L0761: 1, L0646: 1, L0771: 1, L0662: 1, L0774: 1, L0805: 1, L0653: 1, L0655: 1, L0664: 1, H0519: 1, H0521: 1, H0478: 1, L0756: 1, L0752: 1, L0759: 1, S0434: 1, L0362: 1, S0192: 1 and H0543: 1.		
HNOKN33	HNOKN33R	1324	57 - 284	3499	Pro-7 to Gly-20.	L0751: 9, H0556: 8, H0617: 8, L0777: 6,		

L0809: 5, L0741: 5, L0754: 5, L0779: 5, S0222: 4, L0769: 4, L0659: 4, L0438: 4, L0748: 4, H0208: 3, H0052: 3, H0009: 3, S0051: 3, T0010: 3, H0521: 3, L0747: 3, L0731: 3, L0758: 3, S0408: 2, S0476: 2, H0575: 2, H0253: 2, H0545: 2, H0687: 2, H0615: 2, H0181: 2, H0135: 2, H0494: 2, L5566: 2, L0666: 2, L0664: 2, L0565: 2, H0445: 2, S6024: 1, S0134: 1, S0001: 1, S0282: 1, S0400: 1, H0459: 1, S0354: 1, S0360: 1, H0580: 1, S0007: 1, H0639: 1, S0278: 1, H0441: 1, H0370: 1, H0438: 1, S0280: 1, H0036: 1, H0618: 1, S0049: 1, H0196: 1, H0235: 1, H0597: 1, H0231: 1, H0327: 1, H0566: 1, H0024: 1, L0163: 1,					
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HNOKO45	HNOKO45R	1325	67 - 171	3500			H0594: 1, H0424: 1, H0213: 1, H0030: 1, H0031: 1, H0598: 1, H0100: 1, L0351: 1, H0560: 1, H0625: 1, H0561: 1, H0633: 1, S0144: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0772: 1, L0372: 1, L0645: 1, L0662: 1, L0767: 1, L0651: 1, L0378: 1, L0776: 1, L0657: 1, L0783: 1, L0382: 1, L0663: 1, S0052: 1, H0520: 1, H0547: 1, H0670: 1, S0378: 1, S0380: 1, H0522: 1, H0555: 1, S014: 1, L0743: 1, L0756: 1, L0753: 1, L0759: 1, S0031: 1, S0434: 1, L0581: 1, L0595: 1, L0366: 1 and H0423: 1. L0665: 14, L0666: 13, L0662: 10, L0659: 10, L0646: 9, L0655: 7, L0663: 7, H0648: 7, L0775: 6, L0717: 5, L0657: 5, H0436: 5.		
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HNOKT24	HNOKT24R	1326	98 - 457	3501				H0710: 1, H0579: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0777: 1, L0759: 1, S0308: 1, L0605: 1, L0581: 1, L0608: 1, L0601: 1, H0543: 1, S0412: 1, S0424: 1 and H0506: 1.		
HNOKU52	HNOKU52R	1327	3 - 509	3502				Lys-1 to Glu-6, Pro-8 to Gln-21, Ser-43 to Glu-51, Val-61 to Gly-68, Arg-75 to Pro-87, Ser-92 to Phe-98. Lys-13 to Ser-41, Lys-57 to Lys-66, Lys-89 to Lys-97, Lys-113 to Ala-118, Pro-131 to Ala-147, Ala-159 to Ala-169. Lys-24 to Lys-31, Gly-132 to Glu-137.		
HNOKV82	HNOKV82R	1328	3 - 488	3503						
HNOKZ03	HNOKZ03R	1329	216 - 401	3504				H0624: 10, S0192: 8, S0022: 7, S0212: 5, H0031: 4, H0412: 4, S0028: 4, L0747: 4, S0194: 4, H0717: 3, H0427: 3, L0471: 3, S0250: 3, H0039: 3,		

H0644: 3, H0040: 3, H0059: 3, H0144: 3, H0547: 3, S0126: 3, S0037: 3, S0027: 3, S0206: 3, L0439: 3, H0713: 2, H0661: 2, S0360: 2, H0208: 2, S0045: 2, S0046: 2, H0587: 2, H0486: 2, H0575: 2, H0024: 2, H0266: 2, H0622: 2, H0551: 2, S0210: 2, H0520: 2, L0740: 2, L0731: 2, L0605: 2, H0170: 1, H0171: 1, S0040: 1, H0716: 1, H0294: 1, S0116: 1, S0420: 1, S0442: 1, H0619: 1, S0300: 1, H0592: 1, H0586: 1, H0485: 1, H0156: 1, H0590: 1, S0474: 1, S0049: 1, H0596: 1, H0544: 1, H0045: 1, H0012: 1, H0620: 1, H0014: 1, T0010: 1, H0687: 1, S0003: 1, H0615: 1, H0030: 1, S0364: 1, S0366: 1, H0090: 1, H0038: 1,
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HNORA56	HNORA56R	1330	2 - 595	3505	Leu-24 to Thr-39, Gln-70 to Glu-81, Arg-86 to Leu-98, Glu-104 to Pro-110, Pro-134 to Arg-157, Val-159 to Asn-166.							
HNORB68	HNORB68R	1331	1 - 210	3506	Gly-1 to Ser-22, Pro-29 to Lys-70.							
HNORC14	HNORC14R	1332	2 - 499	3507		S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5,						

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					H0550: 1, H0592: 1, H0587: 1, H0599: 1, H0042: 1, H0590: 1, H0318: 1, H0309: 1, H0545: 1, H0563: 1, H0564: 1, H0123: 1, H0019: 1, S0050: 1, L0163: 1, S0388: 1, H0356: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, H0031: 1, H0111: 1, H0169: 1, S0364: 1, L0455: 1, H0135: 1, H0163: 1, T0067: 1, T0069: 1, T0004: 1, H0100: 1, S0112: 1, L0370: 1, L0598: 1, L0769: 1, L0630: 1, L0800: 1, L0648: 1, L0363: 1, L0768: 1, L0649: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0784: 1, L0523: 1, L0805: 1, L0776: 1, L0527: 1, L0657: 1, L0635: 1, L0783: 1, L0789: 1, L0532: 1, L0664: 1, H0691: 1, T0068: 1, S0148: 1,	
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HNORD11	HNORD11R	1333	155 - 430	3508				H0693: 1, H0520: 1, H0593: 1, H0689: 1, H0684: 1, S0330: 1, S0380: 1, S0174: 1, H0555: 1, L0612: 1, L0743: 1, L0748: 1, L0751: 1, L0749: 1, L0779: 1, L0759: 1, L0689: 1, S0434: 1, L0604: 1, L0366: 1, S0106: 1 and S0021: 1.	
HNORE65	HNORE65R	1334	2 - 436	3509	Ala-24 to Lys-29, Lys-51 to Gly-62.			H0585: 20, H0641: 14, H0521: 9, H0141: 5, H0031: 5, H0422: 5, H0644: 4, L0755: 4, H0295: 3, H0638: 3, S0376: 3, H0544: 3, S0440: 3, H0689: 3, H0690: 3, L0757: 3, H0657: 2, S0360: 2, H0586: 2, H0581: 2, H0063: 2, S0144: 2, L0662: 2, H0691: 2, H0520: 2, S0126: 2, H0522: 2, L0740: 2, L0777: 2, H0423: 2, S0298: 1, H0306: 1, S0132: 1, S0278: 1, H0549: 1, S0222: 1,	

HNORF03	HNORF03R	1335	37 - 387	3510	Pro-19 to His-36, Glu-68 to Ala-86.	L0439: 6, L0794: 2, L0665: 2, H0691: 2, L0717: 1, H0068: 1, L0761: 1, L0646: 1, L0773: 1, L0662: 1, L0790: 1, L0663: 1, L0438: 1, L0748: 1, L0758: 1, L0592: 1 and H0543: 1.
						H0587: 1, H0333: 1, H0575: 1, H0706: 1, H0052: 1, H0309: 1, H0596: 1, H0546: 1, H0545: 1, H0086: 1, H0009: 1, H0284: 1, T0023: 1, L0143: 1, H0551: 1, H0494: 1, S0438: 1, S0002: 1, L0371: 1, L0770: 1, L0769: 1, L0667: 1, L0372: 1, L0646: 1, L0553: 1, L0771: 1, L0774: 1, L0375: 1, L0806: 1, L0382: 1, H0703: 1, H0593: 1, H0682: 1, S0328: 1, S0380: 1, H0555: 1, S0027: 1, L0742: 1, L0747: 1, L0779: 1, L0753: 1, H0445: 1 and H0543: 1.

HNORF04	HNORF04R	1336	1 - 168	3511			L0608: 1.		
HNORF05	HNORF05R	1337	2 - 334	3512	Thr-2 to Phe-7, Gly-18 to Arg-23, Asp-27 to Glu-35.				
HNORF13	HNORF13R	1338	1 - 636	3513	Gly-1 to Thr-10.				
HNORH03	HNORH03R	1339	3 - 680	3514			S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3, L0776: 3, S0374: 3, L0748: 3, L0755: 3, L0588: 3, H0422: 3, H0685: 2, H0549: 2, H0550: 2, H0632: 2, H0546: 2, H0424: 2, H0163: 2, H0551: 2, L0665: 2, H0593: 2, H0660: 2, S0330: 2, L0747: 2, L0749: 2, L0777: 2, L0757: 2, S0031: 2, H0556: 1, H0686: 1, H0295: 1, S0430: 1, H0657: 1, H0341: 1, H0662: 1, S0278: 1, H0282: 1, H0592: 1, H0586: 1, H0486: 1, T0039: 1, T0109: 1, H0004: 1, H0581: 1, H0309: 1, H0596: 1, T0110: 1,		

HNORH05	HNORH05R	1340	1 - 498	3515	Arg-13 to Arg-21, Asp-26 to Pro-35,	H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0413: 1, H0059: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, H0529: 1, L0762: 1, L0770: 1, L0769: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0775: 1, L0375: 1, L0556: 1, L0655: 1, L0807: 1, L0656: 1, L0659: 1, L0540: 1, L0783: 1, L0384: 1, S0216: 1, H0144: 1, H0691: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0378: 1, S0380: 1, H0518: 1, H0555: 1, S3014: 1, S0032: 1, L0741: 1, H0445: 1, L0596: 1, S0192: 1, S0194: 1, S0460: 1 and H0352: 1.		
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HNORH35	HNORH35R	1341	20 - 244	3516	Glu-58 to Gly-65, Ser-74 to Pro-82, Gln-107 to Asp-115, Asp-128 to Asn-137, Gln-145 to Arg-154, Gln-161 to Ser-166.			
HNORJ08	HNORJ08R	1342	3 - 377	3517	Ala-19 to Ser-27, Ser-41 to Val-53.			
HNTRB70	HNTRB70R	1343	144 - 377	3518	Asn-95 to Leu-100. Pro-3 to Ile-12, Asn-20 to Glu-25.			
HOCMA02	HOCMA02R A	1344	3 - 530	3519	Ile-121 to Val-129, Ala-136 to Glu-142.	L0742: 10, H0144: 6, H0265: 5, S0116: 4, S0046: 4, S0222: 4, H0556: 3, H0250: 3, H0052: 3, S0027: 3, L0595: 3, S0212: 2, H0306: 2, S0358: 2, H0013: 2, H0618: 2, H0124: 2, H0100: 2, S0053: 2, H0660: 2, S0330: 2, S0312: 2, L0748: 2, L0439: 2, L0745: 2, L0757: 2, H0445: 2, S0342: 1, H0484: 1, H0638: 1, S0007: 1, H0393: 1, H0437: 1, H0549: 1, H0438: 1, H0486: 1.		

HOCMB45	HOCMB45R A	1345	347 - 541	3520	Asn-39 to Gln-44, Leu-47 to Asp-55.	H0253: 1, H0390: 1, H0544: 1, H0046: 1, H0009: 1, H0023: 1, N0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, S0366: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, H0130: 1, H0641: 1, S0142: 1, S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0794: 1, L0766: 1, L0775: 1, L0654: 1, L0655: 1, L0352: 1, S0008: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, L0779: 1, L0605: 1, L0593: 1, S0026: 1, H0667: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and H0506: 1.		
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HOCMB65	HOCMB65R A	1346	241 - 456	3521						
HOCMC08	HOCMC08R	1347	1 - 426	3522	Lys-18 to Tyr-31, Ile-45 to Asp-50, Trp-78 to Ser-88,					

HOCMF06	HOCMF06R	1348	382 - 588	3523	Pro-102 to Pro-109.				
HOCMF27	HOCMF27R	1349	3 - 395	3524	Glu-1 to Ile-6, Asp-125 to Pro-131.	L0748: 26, H0046: 18, H0510: 7, H0673: 7, L0803: 7, H0169: 6, H0144: 6, L0731: 4, H0574: 3, H0521: 3, H0370: 2, H0615: 2, H0032: 2, T0067: 2, H0509: 2, S0210: 2, L0776: 2, L0749: 2, L0750: 2, L0595: 2, H0170: 1, H0656: 1, H0341: 1, H0151: 1, S0046: 1, S0132: 1, H0619: 1, H0351: 1, S0222: 1, H0497: 1, H0632: 1, H0486: 1, H0156: 1, H0575: 1, H0052: 1, H0596: 1, H0057: 1, H0014: 1, H0355: 1, H0286: 1, H0622: 1, H0165: 1, H0674: 1, H0212: 1, H0038: 1, H0379: 1, H0059: 1, T0041: 1, S0448: 1, H0132: 1, S0150: 1, L0646: 1, L0774: 1, L0527: 1, L0657: 1, L0809: 1,			

									L0519: 1, L0788: 1, L0789: 1, L0666: 1, H0520: 1, H0519: 1, H0658: 1, H0660: 1, S0152: 1, S0013: 1, H0696: 1, S0044: 1, S0174: 1, S0146: 1, H0479: 1, L0744: 1, L0777: 1, L0758: 1, L0581: 1, L0608: 1, L0593: 1 and H0136: 1.		
HOCMF50	HOCMF50RB	1350	49 - 354	3525		Gly-2 to Lys-9, Arg-21 to Glu-32, Pro-58 to Lys-64, Thr-73 to Glu-83.			H0687: 1, L0663: 1 and H0660: 1.		
HOCMF54	HOCMF54R	1351	37 - 285	3526		Lys-1 to Thr-6, Ala-26 to Gly-36, Ser-47 to Gln-55, Leu-72 to Cys-83.			L0794: 7, L0666: 4, L0750: 3, L0664: 2, L0665: 2, H0670: 2, H0660: 2, L0439: 2, L0751: 2, L0756: 2, H0650: 1, H0150: 1, L0769: 1, L0803: 1, L0378: 1, L0657: 1, H0684: 1 and H0555: 1.		
HOCMG37	HOCMG37R	1352	1 - 456	3527		Gly-1 to Asn-9, Glu-31 to Val-39.			H0657: 13, S0360: 12, S0026: 7, H0547: 6, H0171: 4, S0356: 4, H0551: 4, H0560: 4, H0509: 4, H0689: 4, H0543: 4, S0358: 3.		

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HOCMI62	HOCMI62R	1353	49 - 348	3528			H0553: 1, H0068: 1, H0090: 1, H0040: 1, H0634: 1, T0067: 1, H0079: 1, H0561: 1, L0065: 1, H0130: 1, H0647: 1, S0422: 1, L0772: 1, L0648: 1, L0662: 1, L0768: 1, L0375: 1, L0657: 1, L0659: 1, L0518: 1, S0310: 1, L0438: 1, H0670: 1, H0648: 1, S0380: 1, H0521: 1, H0436: 1, L0439: 1, L0749: 1, L0756: 1, L0779: 1, L0731: 1, H0343: 1, L0596: 1, L0588: 1, L0590: 1, L0591: 1, L0603: 1, H0653: 1, S0196: 1, H0422: 1, S0424: 1, S0384: 1 and H0506: 1.		
HOCMJ47	HOCMJ47R	1354	1 - 510	3529	Lys-23 to Ser-29, Tyr-55 to His-62, Tyr-65 to Leu-71.				
HOCMK20	HOCMK20R	1355	14 - 400	3530	Glu-32 to Ser-38.				
HOCML06	HOCML06R	1356	3 - 707	3531	Gly-1 to Arg-9.				
HOCML66	HOCML66R	1357	2 - 289	3532		L0748: 2, S6028: 1, H0682: 1, H0660: 1,			

HOCMM52	HOCMM52R	1358	130 - 594	3533	Thr-19 to Cys-25, Lys-133 to Ala-138.	S0378: 1 and H0506: 1.		
HOCMO50	HOCMO50R	1359	3 - 425	3534				
HOCMS75	HOCMS75R	1360	3 - 500	3535		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2,		

	H0646: 2, L0640: 2, L0637: 2, L0641: 2, L0764: 2, L0804: 2, L0806: 2, L0776: 2, L0657: 2, L0809: 2, L0664: 2, H0519: 2, H0682: 2, H0670: 2, H0672: 2, L0744: 2, L0740: 2, S0434: 2, H0677: 2, H0483: 1, H0305: 1, H0638: 1, S0442: 1, S0358: 1, S0376: 1, S0410: 1, H0411: 1, H0550: 1, H0455: 1, H0600: 1, H0101: 1, H0575: 1, H0590: 1, H0618: 1, H0052: 1, H0234: 1, H0597: 1, H0121: 1, L0041: 1, H0123: 1, H0246: 1, H0290: 1, H0292: 1, H0428: 1, H0622: 1, T0023: 1, H0030: 1, H0316: 1, H0059: 1, H0100: 1, S0306: 1, T0090: 1, H0649: 1, S0210: 1, S0426: 1, L0646: 1, L0765: 1, L0771: 1, L0626: 1, L0768: 1,	
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HOCMS87	HOCMS87R	1361	145 - 636	3536	Pro-84 to Pro-91.	L0364: 1, L0766: 1, L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1.		
						L0743: 9, H0551: 5, H0645: 4, H0050: 4, S0250: 4, S0192: 4, H0624: 3, T0039: 3, H0087: 3, H0547: 3, L0439: 3, H0294: 2, H0370: 2, T0040: 2, H0620: 2, H0024: 2, H0622: 2, H0424: 2, H0031: 2, H0063: 2, L0662: 2, L0776: 2, S0028: 2, L0757: 2, S0242: 2, S0116: 1, H0484: 1, H0483: 1, S0360: 1, H0619: 1, H0550: 1, H0586: 1, H0497: 1, H0486: 1,		

							H0599: 1, H0575: 1, H0122: 1, H0706: 1, H0421: 1, S0049: 1, H0086: 1, H0123: 1, H0081: 1, H0012: 1, H0687: 1, H0028: 1, H0604: 1, S0386: 1, L0772: 1, L0648: 1, L0803: 1, L0774: 1, L0375: 1, L0789: 1, L0532: 1, L0663: 1, T0068: 1, S0126: 1, H0684: 1, H0660: 1, S0152: 1, S0027: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, S0194: 1 and H0506: 1.			
HOCMX29	HOCMX29R	1362	86 - 235	3537						
HOCMY53	HOCMY53R	1363	76 - 354	3538	Glu-1 to Gly-6, Leu-27 to Val-40, Glu-60 to Asn-67.					
HOCMY61	HOCMY61R	1364	2 - 466	3539						
HOCMY79	HOCMY79R	1365	314 - 511	3540	Gly-17 to Arg-42, Phe-56 to Ser-66.					
HOCOC38	HOCOC38R	1366	394 - 2	3541	Lys-1 to His-6.					
HOCOC41	HOCOC41R	1367	520 - 789	3542	Lys-7 to Glu-13,					
HOCOC94	HOCOC94R	1368	3 - 488	3543	Gly-39 to Thr-44, Gly-82 to Ile-89, Glu-98 to Asn-105.	L0777: 14, L0731: 10, L0740: 8, L0439: 7, L0754: 6, S0222: 5, H0144: 5, L0745: 5,				

	H0013: 4, L0770: 4, S0380: 4, L0748: 4, L0758: 4, H0171: 3, H0599: 3, S0010: 3, H0052: 3, S0003: 3, H0615: 3, L0598: 3, L0666: 3, L0665: 3, H0519: 3, H0658: 3, L0749: 3, H0255: 2, S0376: 2, S0444: 2, S0360: 2, H0632: 2, H0327: 2, S0214: 2, H0038: 2, H0040: 2, L0769: 2, L0638: 2, L0662: 2, L0794: 2, L0775: 2, L0776: 2, H0660: 2, S0330: 2, L0744: 2, L0750: 2, L0756: 2, L0757: 2, L0362: 2, L0361: 2, H0170: 1, H0685: 1, S0040: 1, S0342: 1, H0716: 1, S0001: 1, S0282: 1, H0662: 1, S0356: 1, S0358: 1, H0675: 1, S0408: 1, H0580: 1, S0300: 1, H0406: 1, S0278: 1, H0550: 1, H0441: 1, H0431: 1, H0600: 1,					
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							S0206: 1, L0746: 1, L0747: 1, S0031: 1, L0689: 1, S0436: 1, S0194: 1, S0276: 1, S0412: 1, H0506: 1 and H0352: 1.			
HOCOF35	HOCOF35R	1369	221 - 502	3544			Pro-6 to Arg-12, Gln-17 to Leu-22, His-25 to Asp-32, Gly-62 to Lys-69.			
HOCOF50	HOCOF50R	1370	2 - 409	3545			Thr-16 to Phe-28, Cys-58 to Ser-69, Glu-91 to Glu-99, Lys-113 to Gln-119.			
HOCOO62	HOCOO62R	1371	9 - 539	3546			Gln-37 to Trp-44, Arg-47 to Phe-57, Phe-67 to Ala-83, Pro-94 to Gly-99, Lys-109 to Cys-116, Arg-130 to Ser-137.			
HOCOP52	HOCOP52R	1372	2 - 382	3547						
HOCOQ13	HOCOQ13R	1373	46 - 492	3548			Glu-1 to Val-9.			
							H0521: 5, S0040: 3, H0039: 3, H0657: 2, H0341: 2, H0553: 2, S0210: 2, H0593: 2, H0445: 2, L0596: 2, S0212: 1, H0661: 1, S0418: 1, S0354: 1, S0358: 1, H0592: 1, T0039: 1, H0635: 1,			

									H0427: 1, H0544: 1, H0546: 1, H0545: 1, H0046: 1, L0471: 1, H0083: 1, S6028: 1, S0338: 1, S0003: 1, H0068: 1, H0038: 1, H0063: 1, H0551: 1, H0100: 1, T0042: 1, H0494: 1, H0561: 1, H0646: 1, L0800: 1, L0649: 1, L0654: 1, L0666: 1, H0660: 1, H0518: 1, S0152: 1, S0146: 1, H0555: 1, S0037: 1, S0028: 1, L0605: 1, L0599: 1, L0603: 1, H0667: 1, H0542: 1, H0543: 1, S0424: 1 and H0506: 1.				
HOCOQ93	HOCOQ93R	1374	448 - 639	3549									
HOCOT70	HOCOT70R	1375	2 - 412	3550									
HOCOV29	HOCOV29R	1376	107 - 268	3551	Lys-9 to Asp-16, Thr-27 to Trp-36.								
HOCPF69	HOCPF69R	1377	1 - 573	3552									
HOCPG38	HOCPG38R	1378	1 - 183	3553	Pro-38 to Gln-43.				H0046: 5, H0144: 5, L0665: 4, L0662: 3, L0766: 3, L0750: 3, L0779: 3, L0759: 3, H0170: 2, S0376: 2, H0329: 2, H0427: 2.				

	L0770: 2, L0529: 2, L0439: 2, L0740: 2, L0751: 2, L0758: 2, S0242: 2, H0223: 1, H0685: 1, S0116: 1, S0282: 1, H0662: 1, S6022: 1, H0574: 1, H0486: 1, H0013: 1, H0098: 1, H0575: 1, H0581: 1, H0052: 1, L0471: 1, H0024: 1, H0510: 1, H0594: 1, H0328: 1, H0169: 1, H0598: 1, H0163: 1, H0646: 1, L0637: 1, L0768: 1, L0794: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0647: 1, L0666: 1, L0664: 1, S0374: 1, L0438: 1, H0519: 1, H0670: 1, H0660: 1, H0648: 1, S0378: 1, H0696: 1, S0432: 1, L0777: 1, L0755: 1, S0308: 1, L0591: 1, L0608: 1, S0192: 1, S0194: 1, H0543: 1,	
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HOC PG48	HOC PG48R	1379	39 - 185	3554			H0423: 1 and S0412: 1.		
HOC PH40	HOC PH40R	1380	2 - 217	3555	Leu-9 to Val-14, Glu-41 to Ala-49.		L0731: 7, S0358: 6, L0439: 6, L0769: 5, L0809: 4, L0747: 4, S0354: 3, H0580: 3, H0438: 3, H0581: 3, L0770: 3, L0766: 3, L0774: 3, L0775: 3, L0740: 3, L0749: 3, L0758: 3, L0596: 3, H0677: 3, H0392: 2, H0457: 2, L0471: 2, H0510: 2, H0169: 2, H0551: 2, T0042: 2, H0494: 2, S0438: 2, L0761: 2, L0657: 2, L0783: 2, L0647: 2, L0666: 2, L0565: 2, L0438: 2, H0521: 2, L0748: 2, L0750: 2, L0779: 2, L0752: 2, L0759: 2, L0588: 2, L0605: 2, L0592: 2, L0581: 2, L0615: 1, S0116: 1, H0638: 1, S0418: 1, S0444: 1, S0360: 1, S0222: 1, H0586: 1, H0427: 1, H0618: 1, H0390: 1,		

						H0318: 1, H0007: 1, H0052: 1, H0544: 1, H0024: 1, H0014: 1, H0083: 1, H0375: 1, S6028: 1, H0266: 1, H0398: 1, L0055: 1, H0135: 1, H0087: 1, S0344: 1, S0426: 1, H0529: 1, L0763: 1, L0639: 1, L0374: 1, L0764: 1, L0662: 1, L0768: 1, L0803: 1, L0378: 1, L0776: 1, L0659: 1, L0518: 1, L0663: 1, L0665: 1, S0374: 1, H0547: 1, H0519: 1, H0593: 1, H0690: 1, H0682: 1, H0660: 1, S0328: 1, H0539: 1, H0555: 1, L0743: 1, L0777: 1, H0445: 1, L0362: 1, S0242: 1 and H0543: 1.			
HOCPh44	HOCPh44R	1381	3 - 281	3556	Gly-18 to Asp-23, Gln-34 to Gly-40, Asp-81 to Lys-87.				
HOCPI28	HOCPI28R	1382	3 - 245	3557					
HOCPI53	HOCPI53R	1383	2 - 232	3558	Asp-43 to Gly-48.				
HOCPL59	HOCPL59R	1384	285 - 530	3559					
HOCPM39	HOCPM39R	1385	2 - 136	3560					

HOCPP65	HOCPP65R	1386	3 - 275	3561	Ala-2 to Ala-9.	L0747: 10, L0805: 6, S0358: 4, L0775: 4, L0655: 4, L0749: 4, H0656: 3, S0440: 3, L0803: 3, L0776: 3, L0789: 3, H0650: 2, H0662: 2, L0471: 2, H0620: 2, H0169: 2, H0616: 2, L0770: 2, L0769: 2, L0761: 2, L0800: 2, L0794: 2, L0804: 2, L0806: 2, L0657: 2, L0809: 2, L0665: 2, H0547: 2, S0126: 2, H0660: 2, H0648: 2, H0521: 2, S0406: 2, L0748: 2, L0750: 2, L0758: 2, L0581: 2, T0002: 1, H0686: 1, H0657: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0444: 1, H0574: 1, H0559: 1, H0486: 1, L0586: 1, T0114: 1, H0250: 1, H0318: 1, H0014: 1, H0051: 1, H0266: 1, H0292: 1, H0428: 1, H0031: 1, H0673: 1, H0163: 1,		
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HOCPP80	HOCPP80R	1387	3 - 587	3562	Glu-16 to Lys-21, Asn-62 to Arg-68, Asp-94 to Thr-102, Gly-161 to Leu-170.	H0591: 1, H0494: 1, L0640: 1, L0763: 1, L0772: 1, L0773: 1, L0521: 1, L0766: 1, L0774: 1, L0375: 1, L0384: 1, L0793: 1, H0144: 1, H0703: 1, S0374: 1, H0593: 1, H0690: 1, H0659: 1, H0658: 1, S0328: 1, S0152: 1, L0744: 1, L0779: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.		
HOCQP24	HOCQP24R	1388	26 - 358	3563	Ser-9 to Glu-16, Phe-49 to Tyr-58, Asn-102 to Gly-110.	L0754: 4, H0290: 2, L0761: 2, L0794: 2, L0766: 2, L0793: 2, L0731: 2, L0758: 2, L0759: 2, L0594: 2, H0713: 1, H0402: 1, S0418: 1, S0354: 1, H0580: 1, L0717: 1, H0550: 1, H0333: 1.		
HOCQP59	HOCQP59R	1389	2 - 394	3564				

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					H0083: 3, H0038: 3, H0634: 3, H0494: 3, S0440: 3, L0774: 3, L0775: 3, L0659: 3, H0522: 3, L0744: 3, L0749: 3, L0755: 3, L0759: 3, H0543: 3, S0358: 2, S0476: 2, H0156: 2, H0194: 2, L0471: 2, H0014: 2, H0201: 2, S0003: 2, T0023: 2, H0135: 2, H0551: 2, S0142: 2, L0372: 2, L0662: 2, L0767: 2, L0381: 2, L0383: 2, L0666: 2, L0665: 2, H0658: 2, H0660: 2, S0044: 2, S3014: 2, L0751: 2, L0754: 2, L0596: 2, L0588: 2, L0591: 2, L0592: 2, L0595: 2, L0601: 2, H0423: 2, S0040: 1, S0134: 1, S0298: 1, H0661: 1, H0664: 1, H0125: 1, S0420: 1, S0356: 1, S0354: 1, S0444: 1, S0360: 1, H0619: 1, H0393: 1, H0549: 1,
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	H0550: 1, S0222: 1, S6014: 1, H0431: 1, H0592: 1, H0574: 1, T0039: 1, T0114: 1, H0075: 1, H0427: 1, H0590: 1, H0004: 1, H0318: 1, H0581: 1, H0251: 1, H0596: 1, T0115: 1, H0009: 1, H0081: 1, H0050: 1, H0024: 1, T0010: 1, H0687: 1, H0288: 1, H0290: 1, H0039: 1, H0622: 1, L0055: 1, H0032: 1, H0090: 1, H0591: 1, H0040: 1, H0063: 1, H0413: 1, T0069: 1, S0438: 1, H0538: 1, S0210: 1, S0426: 1, H0529: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0374: 1, L0764: 1, L0768: 1, L0386: 1, L0803: 1, L0524: 1, L0806: 1, L0379: 1, L0527: 1, L0657: 1, L0382: 1, L0809: 1, L0788: 1, L0663: 1, S0052: 1, S0374: 1,				
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							H0691: 1, H0682: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, S0152: 1, H0436: 1, L0611: 1, S0027: 1, S0028: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, L0608: 1, S0026: 1, H0653: 1, S0192: 1, S0194: 1, H0422: 1 and S0384: 1.			
HOCPR33	HOCPR33R	1394	168 - 335	3569						
HOCPR53	HOCPR53R	1395	62 - 256	3570	Glu-22 to Glu-30, Lys-42 to Glu-51.					
HOCPR55	HOCPR55R	1396	3 - 440	3571	Pro-7 to Ser-36, Cys-49 to Pro-57, Pro-85 to Ala-91, Gly-97 to Pro-109.		L0766: 2, H0660: 2, L0748: 2, L0740: 2, H0328: 1, L0769: 1, L0651: 1, L0653: 1, H0593: 1 and S0126: 1.			
HOCPR77	HOCPR77R	1397	1 - 279	3572						
HOCPR82	HOCPR82R	1398	1 - 102	3573						
HOCPS35	HOCPS35R	1399	3 - 203	3574	Tyr-1 to Gly-39, Ala-41 to Tyr-67.					
HOCPU03	HOCPU03R	1400	1 - 225	3575						
HOCPU30	HOCPU30R	1401	333 - 560	3576						
HOCPU68	HOCPU68R	1402	3 - 269	3577	Ser-49 to Asp-56; Arg-64 to Ile-71, Pro-80 to Ile-89.					
HOCPV29	HOCPV29R	1403	339 - 599	3578	His-10 to Asp-20,		H0620: 2, S0022: 2,			

				Asn-27 to Gly-33.	L0438: 2, T0002: 1, H0393: 1, H0370: 1, H0050: 1, H0373: 1, H0051: 1, H0028: 1, S0036: 1, H0551: 1, H0059: 1, S0150: 1, L0662: 1, S0126: 1, H0435: 1, H0660: 1, S0044: 1 and H0694: 1.			
HOCV67	HOCV67R	1404	1 - 390	3579	L0803: 7, L0439: 5, L0809: 4, L0749: 4, L0776: 3, H0520: 3, L0748: 3, L0750: 3, H0543: 3, S0440: 2, L0794: 2, L0804: 2, L0438: 2, H0547: 2, H0660: 2, S0406: 2, L0743: 2, L0777: 2, L0759: 2, H0556: 1, H0656: 1, S0358: 1, S0360: 1, H0637: 1, H0580: 1, H0741: 1, H0733: 1, H0619: 1, H0415: 1, H0600: 1, H0587: 1, H0486: 1, H0013: 1, H0427: 1, S0474: 1, H0581: 1, H0263: 1, H0457: 1, H0615: 1, H0428: 1, H0644: 1, H0032: 1,			

HOCV72	HOCV72R	1405	3 - 209	3580			S0036: 1, H0591: 1, H0634: 1, H0264: 1, S0438: 1, S0422: 1, S0002: 1, L0520: 1, L0766: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0655: 1, L0790: 1, L0666: 1, L0663: 1, H0723: 1, H0593: 1, H0682: 1, H0670: 1, H0521: 1, S0013: 1, H0631: 1, S0206: 1, L0756: 1, L0731: 1, L0608: 1, S0194: 1 and S0424: 1.		
HOCV56	HOCV56R	1406	2 - 502	3581	Ile-53 to Trp-63, Ala-80 to Gly-89, Arg-134 to Gln-139.		L0752: 19, L0747: 12, L0776: 6, L0750: 5, L0608: 5, L0774: 4, L0805: 4, L0438: 4, L0740: 4, S0210: 3, L0600: 3, S0358: 2, S0222: 2, H0068: 2, H0040: 2, H0413: 2, L0770: 2, L0769: 2, L0772: 2, L0794: 2, L0783: 2, L0809: 2, S0328: 2, L0439: 2, L0745: 2, L0755: 2, L0758: 2, L0590: 2.		

H0170: 1, H0341: 1, H0483: 1, S0420: 1, S0410: 1, S0300: 1, H0411: 1, H0549: 1, L0622: 1, H0013: 1, H0156: 1, S0010: 1, H0052: 1, H0545: 1, N0006: 1, L0471: 1, H0012: 1, S0336: 1, H0428: 1, T0006: 1, H0606: 1, H0674: 1, L0455: 1, S0036: 1, H0038: 1, H0063: 1, H0494: 1, H0560: 1, L0520: 1, L0762: 1, L0521: 1, L0662: 1, L0767: 1, L0803: 1, L0653: 1, L0659: 1, L0790: 1, L0791: 1, L0666: 1, H0144: 1, S0374: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, H0648: 1, S0378: 1, H0134: 1, H0214: 1, L0749: 1, L0731: 1, L0361: 1, S0106: 1, S0011: 1, H0653: 1, S0192: 1, S0242: 1, S0194: 1 and H0422: 1.					
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HOCPW68	HOCPW68R	1407	1 - 297	3582					
HOCPW81	HOCPW81R	1408	2 - 694	3583	Pro-42 to Ser-59, Asp-159 to Asn-168, Tyr-196 to Gly-205.	H0046: 9, L0777: 3, S0376: 2, H0050: 2, S0344: 2, S0126: 2, H0670: 2, S0152: 2, H0521: 2, H0542: 2, H0543: 2, H0341: 1, S0354: 1, S0358: 1, S0408: 1, H0619: 1, H0393: 1, H0592: 1, H0590: 1, S0474: 1, H0546: 1, H0551: 1, H0494: 1, S0440: 1, L0663: 1, H0660: 1, H0672: 1, H0631: 1, S0028: 1, L0757: 1, S0434: 1, L0581: 1 and L0593: 1.			
HOCPX01	HOCPX01R	1409	99 - 296	3584	Glu-24 to Ser-29.	H0617: 5, L0769: 4, L0776: 4, L0751: 4, L0747: 4, L0774: 3, H0685: 2, H0657: 2, H0483: 2, H0486: 2, H0052: 2, H0674: 2, H0494: 2, L0775: 2, L0518: 2, H0682: 2, L0603: 2, H0170: 1, S6024: 1, S0116: 1, H0664: 1, H0306: 1,			
HOCPY70	HOCPY70R	1410	266 - 442	3585					

						S0420: 1, S0376: 1, S0360: 1, S0007: 1, S0300: 1, S0222: 1, S6014: 1, H0250: 1, L0021: 1, L0022: 1, S0049: 1, H0309: 1, H0150: 1, H0009: 1, S0051: 1, H0188: 1, T0006: 1, H0604: 1, H0673: 1, H0169: 1, H0087: 1, L0065: 1, L0763: 1, L0638: 1, L0773: 1, L0662: 1, L0768: 1, L0766: 1, L0649: 1, L0651: 1, L0657: 1, L0540: 1, L0783: 1, L0809: 1, L0530: 1, L0787: 1, L0789: 1, L0665: 1, S0374: 1, S0126: 1, H0684: 1, H0660: 1, H0539: 1, S0380: 1, H0576: 1, L0741: 1, L0742: 1, L0749: 1, L0750: 1, L0779: 1, L0759: 1, S0031: 1 and L0590: 1.			
HOCpz76	HOCpz76R	1411	2 - 460	3586	Pro-93 to Arg-99, Ser-143 to Val-149.				
HOCOA25	HOCOA25R	1412	352 - 543	3587	Ser-25 to Ser-30.	S0358: 45, S0360: 30,			

								S0374: 22, S0444: 21, L0662: 21, S0408: 19, L0666: 15, S0380: 14, L0664: 11, L0665: 11, S0026: 11, H0059: 10, S0328: 10, S0330: 10, H0251: 9, L0809: 8, H0670: 8, S0378: 8, H0661: 7, S0354: 7, S0440: 7, L0775: 7, L0659: 7, L0663: 7, H0672: 7, S0406: 7, S0442: 6, S0414: 6, L0657: 6, L0774: 5, H0659: 5, L0754: 5, S0434: 5, S0376: 4, L0483: 4, L0532: 4, H0547: 4, H0660: 4, L0602: 4, L0592: 4, S0460: 4, S0007: 3, H0529: 3, L0520: 3, L0803: 3, H0648: 3, S0404: 3, L0748: 3, L0747: 3, L0750: 3, L0759: 3, H0445: 3, L0608: 3, S0424: 3, H0663: 2, H0664: 2, H0580: 2, L0444: 2, H0156: 2, H0014: 2, H0615: 2, H0688: 2,					
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	H0039: 2, H0644: 2, H0617: 2, H0032: 2, H0673: 2, L0763: 2, L0646: 2, L0804: 2, L0776: 2, H0627: 2, L0777: 2, L0758: 2, L0362: 2, H0506: 2, L0615: 1, H0685: 1, H0656: 1, L0778: 1, L0785: 1, H0341: 1, H0669: 1, H0662: 1, H0402: 1, S0356: 1, T0008: 1, S0476: 1, H0351: 1, H0299: 1, H0486: 1, H0013: 1, L0021: 1, T0082: 1, H0581: 1, H0421: 1, H0235: 1, H0596: 1, L0040: 1, H0178: 1, H0563: 1, H0012: 1, H0328: 1, H0031: 1, H0068: 1, H0135: 1, T0067: 1, H0264: 1, H0488: 1, H0100: 1, H0494: 1, S0352: 1, S0448: 1, S0450: 1, H0509: 1, S0472: 1, H0647: 1, H0695: 1, L0764: 1, L0765: 1, L0767: 1, L0768: 1,					
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HOCQA26	HOCQA26R	1413	1 - 384	3588			L0364: 1, L0766: 1, L5568: 1, L0552: 1, L0376: 1, L0653: 1, L0655: 1, L0529: 1, H0144: 1, H0520: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0658: 1, S0392: 1, H0478: 1, H0626: 1, H0631: 1, L0744: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, S0308: 1, H0707: 1, L0596: 1, L0593: 1 and S0384: 1.		
HOCQA37	HOCQA37R	1414	13 - 276	3589					
HOCQA86	HOCQA86R	1415	3 - 455	3590					
HOCQB18	HOCQB18R	1416	3 - 473	3591	Met-1 to Leu-6, Gly-19 to Lys-26, Ala-32 to Lys-38, Ala-89 to Leu-94, Gly-134 to Val-141.				
HOCQB48	HOCQB48R	1417	1 - 588	3592	Met-36 to Pro-42, Pro-49 to Thr-55, Leu-104 to Met-110, Trp-112 to Asn-117, Glu-122 to Tyr-134, Gln-142 to Ser-148, Leu-174 to Tyr-180.				

HOCQC57	HOCQC57R	1418	1 - 237	3593		L0766: 6, L0752: 5, L0794: 4, H0039: 3, H0622: 3, S0440: 3, L0770: 3, L0809: 3, H0547: 3, L0747: 3, S0356: 2, H0587: 2, H0427: 2, H0156: 2, H0015: 2, H0031: 2, L0771: 2, L0662: 2, L0768: 2, L0804: 2, L0659: 2, L0666: 2, L0664: 2, L0438: 2, H0660: 2, L0740: 2, L0754: 2, L0745: 2, L0749: 2, L0731: 2, L0593: 2, H0624: 1, H0657: 1, H0656: 1, H0370: 1, H0438: 1, T0040: 1, L0586: 1, T0114: 1, H0036: 1, S0010: 1, H0052: 1, H0545: 1, H0050: 1, H0014: 1, H0373: 1, L0163: 1, H0051: 1, H0071: 1, T0010: 1, H0030: 1, H0316: 1, H0598: 1, H0090: 1, S0038: 1, H0561: 1, H0509: 1, H0130: 1, H0633: 1, S0002: 1,		
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								L0500: 1, L0761: 1, L0764: 1, L0773: 1, L0649: 1, L0375: 1, L0805: 1, L0653: 1, L0544: 1, L0545: 1, L0792: 1, L0663: 1, L0665: 1, H0670: 1, H0666: 1, H0521: 1, L0743: 1, L0439: 1, L0777: 1, L0755: 1, L0758: 1, L0596: 1, L0589: 1, L0592: 1, H0216: 1, H0542: 1, H0423: 1 and H0352: 1.			
HOCQC71	HOCQC71R	1419	216 - 521	3594		Thr-21 to Gly-28, Lys-36 to Gly-43, Ala-73 to His-85.					
HOCQD10	HOCQD10R	1420	2 - 529	3595							
HOCQD19	HOCQD19R	1421	3 - 335	3596		Gly-70 to Gly-79.		H0556: 2, H0519: 2, S0116: 1, H0370: 1, H0063: 1, L0800: 1, L0803: 1, L0383: 1, L0789: 1, H0593: 1, H0659: 1, H0660: 1, L0777: 1 and H0665: 1.			
HOCQD38	HOCQD38R	1422	290 - 550	3597				L0748: 49, L0766: 22, H0457: 12, L0439: 12, H0581: 11, L0659: 11, L0754: 11, L0745: 10, L0662: 9, L0665: 9			

H0710: 9, H0556: 8, L0666: 8, H0521: 8, L0751: 8, L0758: 8, L0592: 8, H0486: 7, H0318: 7, L0774: 7, L0664: 7, S0360: 6, H0510: 6, L0731: 6, H0423: 6, H0638: 5, H0580: 5, H0427: 5, H0050: 5, H0271: 5, L0800: 5, H0670: 5, H0552: 5, L0581: 5, H0506: 5, H0402: 4, S0358: 4, H0179: 4, L0768: 4, L0803: 4, L0438: 4, H0547: 4, H0658: 4, S0328: 4, H0555: 4, H0436: 4, L0747: 4, L0750: 4, L0777: 4, L0759: 4, L0593: 4, S0134: 3, H0657: 3, H0663: 3, H0305: 3, S0420: 3, H0619: 3, H0635: 3, H0098: 3, H0575: 3, S0003: 3, H0264: 3, H0413: 3, H0623: 3, H0494: 3, H0641: 3, L0763: 3, L0667: 3, L0794: 3, L0775: 3,
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								L0651: 3, L0806: 3, L0653: 3, L0776: 3, L0655: 3, H0519: 3, H0690: 3, S0330: 3, L0602: 3, S0404: 3, L0779: 3, L0752: 3, L0755: 3, H0542: 3, S0114: 2, S0282: 2, H0661: 2, S0356: 2, S0376: 2, S0132: 2, H0411: 2, H0431: 2, H0586: 2, H0013: 2, H0069: 2, S0280: 2, L0021: 2, H0599: 2, H0046: 2, H0014: 2, H0051: 2, H0266: 2, H0416: 2, H0687: 2, H0316: 2, H0634: 2, H0551: 2, T0042: 2, S0440: 2, H0646: 2, S0002: 2, H0529: 2, L0769: 2, L0638: 2, L0761: 2, L0372: 2, L0646: 2, L0641: 2, L0648: 2, L0804: 2, L0784: 2, L0606: 2, L0527: 2, L0663: 2, S0374: 2, L0565: 2, H0711: 2, S0380: 2, H0696: 2, S3014: 2,					
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L0744: 2, L0740: 2, L0746: 2, L0757: 2, H0445: 2, L0591: 2, H0543: 2, H0422: 2, H0220: 1, H0222: 1, H0685: 1, S0430: 1, H0650: 1, L0808: 1, S0116: 1, S0212: 1, S0001: 1, H0662: 1, H0459: 1, S0418: 1, S0408: 1, H0393: 1, L0717: 1, H0369: 1, H0261: 1, H0392: 1, H0409: 1, H0574: 1, H0632: 1, L0623: 1, T0039: 1, T0109: 1, H0250: 1, H0036: 1, S0474: 1, T0071: 1, H0421: 1, S0049: 1, H0052: 1, H0309: 1, H0204: 1, H0597: 1, H0544: 1, H0546: 1, H0024: 1, H0200: 1, H0071: 1, T0010: 1, H0083: 1, H0355: 1, S0318: 1, S0250: 1, H0039: 1, L0483: 1, H0031: 1, H0553: 1, H0644: 1, H0182: 1, H0032: 1, H0388: 1,					
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HOCQD42	HOCQD42R	1423	1 - 315	3598	Ala-1 to Gly-8, Leu-26 to Ser-40, Pro-57 to Leu-95.	H0040: 1, H0380: 1, H0280: 1, H0560: 1, H0561: 1, L0065: 1, H0652: 1, S0426: 1, L0369: 1, L0639: 1, L0637: 1, L0772: 1, L0642: 1, L0765: 1, L0378: 1, L0805: 1, L0607: 1, L0629: 1, L0384: 1, L0647: 1, L0789: 1, L0790: 1, S0052: 1, S0216: 1, H0144: 1, H0593: 1, S0126: 1, H0689: 1, H0682: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0672: 1, H0518: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S0392: 1, H0478: 1, H0345: 1, S0027: 1, L0756: 1, S0031: 1, H0444: 1, H0707: 1, S0434: 1, L0599: 1, S0011: 1, H0668: 1, H0667: 1, S0196: 1 and L0697: 1.		
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HOCQD45	HOCQD45R	1424	38 - 475	3599	Arg-11 to Arg-20, Glu-61 to Ser-66, Pro-114 to Ala-125.			
HOCQE35	HOCQE35R	1425	3 - 410	3600				
HOCQG94	HOCQG94R	1426	3 - 317	3601	Glu-58 to Arg-63.			
HOCQH81	HOCQH81R	1427	144 - 335	3602				
HOCQI31	HOCQI31R	1428	1 - 324	3603	Lys-21 to His-26, Arg-47 to Val-55, Ser-65 to Gly-70, Ala-76 to Gly-81.	S0126: 23, H0038: 16, S0372: 15, H0550: 12, H0031: 12, H0545: 10, L0659: 10, S0360: 9, L0662: 9, L0757: 9, L0758: 9, H0551: 8, S0322: 8, H0431: 7, L0666: 7, L0750: 7, H0486: 6, H0546: 6, S0440: 6, L0776: 6, H0549: 5, H0620: 5, L0664: 5, H0593: 5, H0672: 5, H0539: 5, S0380: 5, H0555: 5, L0747: 5, S0358: 4, S0007: 4, H0409: 4, S0010: 4, H0039: 4, H0622: 4, H0616: 4, L0769: 4, L0641: 4, L0655: 4, H0696: 4, L0731: 4, S0040: 3, S0212: 3, S0418: 3, S0045: 3, S0280: 3, H0012: 3, H0090: 3,		

	L0637: 3, L0771: 3, L0775: 3, L0651: 3, L0653: 3, H0690: 3, H0660: 3, S0328: 3, S0044: 3, H0295: 2, T0049: 2, H0662: 2, S0356: 2, S0354: 2, S0376: 2, L0717: 2, H0441: 2, H0333: 2, H0574: 2, H0257: 2, H0485: 2, H0575: 2, H0251: 2, H0544: 2, L0471: 2, H0014: 2, S0051: 2, H0266: 2, H0687: 2, S0003: 2, H0328: 2, H0615: 2, T0067: 2, H0412: 2, H0059: 2, S0016: 2, H0647: 2, S0210: 2, L0598: 2, L0520: 2, L0638: 2, L0796: 2, L0772: 2, L0764: 2, L0519: 2, L0790: 2, H0519: 2, H0689: 2, H0710: 2, S0406: 2, S3014: 2, S0028: 2, S0206: 2, L0740: 2, S0031: 2, L0604: 2, L0601: 2, S0192: 2, S0342: 1, L0785: 1,	
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S0116: 1, S0298: 1, H0663: 1, S0420: 1, S0410: 1, S0468: 1, H0369: 1, H0453: 1, H0370: 1, H0392: 1, H0602: 1, H0587: 1, T0039: 1, H0013: 1, H0004: 1, H0052: 1, H0309: 1, H0046: 1, H0041: 1, H0081: 1, H0011: 1, H0049: 1, T0079: 1, H0375: 1, S0250: 1, S0214: 1, H0252: 1, H0428: 1, T0006: 1, H0032: 1, H0708: 1, H0316: 1, H0598: 1, H0400: 1, H0100: 1, H0494: 1, L0475: 1, S0014: 1, S0015: 1, H0625: 1, S0382: 1, H0646: 1, L0762: 1, L0763: 1, L0630: 1, L0646: 1, L0768: 1, L0649: 1, L0806: 1, L0656: 1, L0809: 1, L0647: 1, L0663: 1, L0665: 1, S0374: 1, H0691: 1, H0547: 1, H0682: 1, H0521: 1, S0027: 1,						
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HOCQJ35	HOCQJ35R	1429	61 - 546	3604	Leu-16 to Pro-22, Val-30 to Asp-36.	L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0755: 1, H0343: 1, H0707: 1, L0605: 1, H0668: 1, S0196: 1 and H0506: 1. H0046: 12, L0771: 7, L0774: 3, L0651: 3, L0806: 3, L0666: 3, L0565: 3, L0748: 3, S0444: 2, S0408: 2, H0393: 2, L0372: 2, L0662: 2, L0766: 2, L0659: 2, L0664: 2, L0744: 2, L0731: 2, H0294: 1, S0442: 1, S0278: 1, H0549: 1, L0021: 1, H0085: 1, H0234: 1, H0596: 1, H0597: 1, H0546: 1, H0024: 1, S0003: 1, H0252: 1, H0383: 1, H0674: 1, H0068: 1, H0487: 1, H0413: 1, T0069: 1, H0100: 1, H0494: 1, H0625: 1, S0352: 1, L0761: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0773: 1, L0794: 1,				
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								L0649: 1, L0803: 1, L0805: 1, L0653: 1, L0515: 1, L0367: 1, L0665: 1, S0374: 1, H0684: 1, H0660: 1, S0328: 1, S0044: 1, S0404: 1, L0740: 1, L0747: 1, L0757: 1, L0758: 1, S0260: 1 and S0276: 1.			
HOCQM24	HOCQM24R	1430	3 - 230	3605	Gly-2 to Gly-12, Gly-14 to Asn-28, Met-32 to Gly-49, Lys-54 to Phe-76.						
HODAF78	HODAF78R	1431	2 - 76	3606							
HODBT55	HODBT55R	1432	234 - 395	3607	Ala-1 to Ser-8.			H0328: 1 and H0435: 1.			
HODCT68	HODCT68R	1433	266 - 484	3608	Gln-1 to Pro-16.			L0493: 4, L0794: 3, H0497: 2, H0038: 2, L0766: 2, L0809: 2, L0779: 2, L0777: 2, L0759: 2, L0601: 2, H0170: 1, S0114: 1, H0341: 1, H0125: 1, S0046: 1, H0592: 1, H0587: 1, H0559: 1, H0156: 1, H0328: 1, H0616: 1, H0386: 1, H0538: 1, H0529: 1, L0769: 1, L0764: 1,			

HODCZ52	HODCZ52R	1434	2 - 139	3609		L0775: 1, L0666: 1, H0659: 1, H0518: 1, L0741: 1, L0439: 1, L0747: 1, L0593: 1, L0594: 1, H0665: 1 and H0667: 1.		
						AR089: 19, AR104: 18, AR060: 12, AR096: 7, AR055: 4, AR061: 3 L0751: 29, H0549: 17, H0550: 17, L0666: 9, L0747: 8, H0689: 7, H0690: 7, H0682: 7, H0615: 6, H0670: 6, H0328: 5, H0150: 4, H0660: 4, S0330: 4, S0044: 4, L0362: 4, H0597: 3, H0688: 3, L0764: 3, L0657: 3, L0809: 3, L0753: 3, L0758: 3, L0759: 3, H0431: 2, H0046: 2, T0067: 2, H0059: 2, H0647: 2, L0774: 2, L0805: 2, L0783: 2, L0438: 2, H0593: 2, H0648: 2, H0672: 2, S0328: 2, S0404: 2, L0744: 2, L0779: 2,		

HODDI57	HODDI57R	1435	3 - 194	3610	Gly-7 to Glu-41.	S0436: 2, H0662: 1, S0442: 1, S0444: 1, S0408: 1, S0007: 1, H0461: 1, H0085: 1, H0009: 1, S0024: 1, H0188: 1, H0039: 1, H0604: 1, H0424: 1, H0169: 1, H0674: 1, L0520: 1, L5569: 1, L0803: 1, L0804: 1, L0775: 1, L0658: 1, L0634: 1, L0542: 1, L0528: 1, L2269: 1, L0663: 1, L0665: 1, H0684: 1, H0659: 1, H0658: 1, S0380: 1, S0406: 1, H0555: 1 and L0780: 1.		
HODDI57	HODDI57R	1435	3 - 194	3610	Gly-7 to Glu-41.	L0794: 4, L0803: 4, H0328: 3, L0779: 3, L0515: 2, L0809: 2, H0144: 2, L0754: 2, L0756: 2, L0759: 2, H0171: 1, S0282: 1, H0346: 1, S0222: 1, H0441: 1, H0486: 1, H0069: 1, H0052: 1, H0544: 1, H0266: 1, L0598: 1, L0638: 1, L0766: 1, L0650: 1.		

HODEJ47	HODEJ47R	1436	11 - 295	3611	Leu-7 to Thr-16.	L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0559: 1, L0659: 1, L0543: 1, L0438: 1, H0682: 1, S0328: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0758: 1, H0343: 1 and H0665: 1.			
						L0754: 20, L0759: 6, L0794: 4, H0615: 3, L0438: 3, S0126: 3, S0360: 2, H0411: 2, H0050: 2, H0163: 2, S0422: 2, L0665: 2, L0748: 2, L0747: 2, L0749: 2, L0780: 2, L0755: 2, H0595: 2, L0361: 2, H0170: 1, H0686: 1, H0638: 1, S0418: 1, S0358: 1, S0376: 1, H0586: 1, H0587: 1, H0009: 1, H0024: 1, H0328: 1, H0428: 1, H0625: 1, S0210: 1, L0598: 1, L0667: 1, L0764: 1, L0662: 1, L0766: 1, L0649: 1, L0650: 1, L0805: 1, L0655: 1,			

							L0789: 1, L0663: 1, H0144: 1, S0330: 1, S0028: 1, L0751: 1, L0750: 1, L0731: 1, L0758: 1 and L0605: 1.			
HODEQ42	HODEQ42R	1437	1 - 54	3612						
HODEP78	HODEP78R	1438	187 - 432	3613			L0803: 7, L0439: 4, L0663: 3, L0749: 3, H0615: 2, L0769: 2, L0794: 2, L0774: 2, L0748: 2, L0777: 2, L0752: 2, L0142: 1, H0646: 1, L0767: 1, L0804: 1, L0784: 1, L0805: 1, L0789: 1, L0666: 1, L0438: 1, H0670: 1 and L0589: 1.			
HODEQ42	HODEQ42R	1439	349 - 444	3614	Asn-1 to Ser-6, Thr-22 to Asn-32.		H0615: 1 and S0031: 1.			
HODES57	HODES57R	1440	92 - 289	3615						
HODES60	HODES60R	1441	2 - 421	3616			L0662: 2, H0615: 1, L0761: 1, L0791: 1, H0519: 1, L0752: 1 and L0758: 1.			
HODEU47	HODEU47R	1442	153 - 347	3617	Ser-1 to Ser-9, Asp-15 to Ala-21.		H0615: 2			
HODEV69	HODEV69R	1443	370 - 546	3618						
HODEW54	HODEW54R	1444	374 - 568	3619			H0328: 1 and H0615: 1.			

HODEW79	HODEW79R	1445	309 - 566	3620				
HODEX45	HODEX45R	1446	220 - 423	3621			H0615: 2 and L0532: 1.	
HODEX69	HODEX69R	1447	58 - 231	3622			H0615: 4 and L0659: 1.	
HODEX79	HODEX79R	1448	1 - 432	3623				
HODFC44	HODFC44RP 00	1449	1 - 207	3624	Ala-9 to Asp-21, Thr-31 to Arg-37.		L0747: 16, L0754: 10, L0751: 7, L0757: 7, H0657: 6, L0748: 6, L0771: 5, H0659: 5, L0740: 5, L0755: 5, H0594: 4, L0744: 4, H0341: 3, S0358: 3, S0278: 3, H0333: 3, H0615: 3, S0366: 3, L0520: 3, L0775: 3, L0517: 3, S0374: 3, S0328: 3, L0731: 3, H0136: 3, T0002: 2, S0218: 2, S0116: 2, S0354: 2, S0376: 2, H0637: 2, S0045: 2, H0370: 2, L0622: 2, H0156: 2, H0599: 2, H0545: 2, H0266: 2, H0039: 2, H0617: 2, H0132: 2, L0769: 2, L0665: 2, H0672: 2, H0539: 2, H0134: 2, L0756: 2, L0752: 2,	

	L0758: 2, H0624: 1, H0170: 1, H0265: 1, S6024: 1, H0656: 1, H0255: 1, H0661: 1, H0125: 1, H0192: 1, S0418: 1, S0420: 1, S0360: 1, H0580: 1, H0393: 1, S0300: 1, H0411: 1, H0369: 1, H0261: 1, S0222: 1, L0623: 1, S0280: 1, H0618: 1, H0318: 1, H0581: 1, H0421: 1, L0738: 1, H0086: 1, L0471: 1, H0024: 1, H0082: 1, L0043: 1, S0214: 1, H0031: 1, H0673: 1, H0068: 1, H0038: 1, H0634: 1, H0087: 1, T0067: 1, H0412: 1, H0100: 1, H0512: 1, S0144: 1, S0142: 1, S0344: 1, S0422: 1, H0517: 1, L0762: 1, L0763: 1, L0761: 1, L0764: 1, L0768: 1, L0766: 1, L0649: 1, L0774: 1, L0651: 1, L0776: 1, L0655: 1, L0526: 1,					
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							L0518: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, H0144: 1, H0593: 1, H0682: 1, H0648: 1, S0044: 1, H0214: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, H0444: 1, H0445: 1, H0595: 1, L0581: 1, L0593: 1 and H0542: 1.			
HODFD90	HODFD90R	1450	3 - 281	3625	Ser-22 to Gln-38.		L0794: 3, L0776: 2, S0358: 1, H0615: 1, H0538: 1, L0662: 1, L0803: 1, L0805: 1, L0791: 1, L0663: 1, S0374: 1, H0658: 1 and L0758: 1.			
HODFE81	HODFE81R	1451	296 - 433	3626						
HODFI68	HODFI68R	1452	293 - 409	3627			L0766: 2, H0328: 1 and H0615: 1.			
HODFJ14	HODFJ14R	1453	2 - 259	3628	Phe-45 to Tyr-60, Arg-67 to Glu-74.					
HODFI52	HODFI52R	1454	97 - 225	3629	Pro-18 to Pro-23, Pro-37 to Val-42.		H0328: 1 and H0615: 1.			
HODFK30	HODFK30RA	1455	1 - 69	3630						
HODFK89	HODFK89R	1456	16 - 324	3631	Lys-69 to Asp-81.					
HODFL50	HODFL50R	1457	1 - 165	3632			H0615: 2, H0370: 1, H0328: 1 and L0749: 1.			

HODFL75	HODFL75R	1458	304 - 393	3633	Ala-2 to Trp-9.			
HODFO16	HODFO16R	1459	251 - 565	3634		H0615: 2		
HODFO64	HODFO64R	1460	1 - 195	3635	Glu-12 to Gly-27, Gln-37 to Tyr-49.	L0666: 3, H0615: 2, S0116: 1, H0675: 1, H0012: 1, L0055: 1, S0438: 1, L0763: 1, L0667: 1, L0649: 1, L0803: 1, L0804: 1, L0659: 1, H0689: 1, H0659: 1, L0752: 1 and S0026: 1.		
HODFP51	HODFP51R	1461	11 - 439	3636	His-33 to Leu-39, Gly-49 to Glu-56, Ser-60 to Lys-143.			
HODFQ19	HODFQ19R	1462	1 - 519	3637	Leu-33 to Val-40, Lys-144 to Glu-152.			
HODFQ37	HODFQ37R	1463	2 - 535	3638	His-1 to Lys-12, Gln-17 to Leu-27, Val-69 to Asp-76, Asp-122 to Trp-128, Asp-141 to Glu-146, Ser-155 to His-164.			
HODFR72	HODFR72R	1464	84 - 512	3639		H0615: 2		
HODFU24	HODFU24R	1465	372 - 695	3640				
HODFU78	HODFU78R	1466	2 - 130	3641				
HODFV22	HODFV22R	1467	291 - 467	3642	Pro-1 to Asp-7.			
HODFV60	HODFV60R	1468	7 - 168	3643		H0328: 1, H0615: 1 and L0365: 1.		
HODFV69	HODFV69R	1469	64 - 210	3644		H0615: 3, H0693: 2,		

									H0266: 1, S0002: 1, L0790: 1, H0547: 1, S0152: 1, H0521: 1, H0696: 1, L0366: 1, S0194: 1 and S0276: 1.			
HODFV79	HODFV79R	1470	360 - 623	3645								
HODFV82	HODFV82R	1471	14 - 154	3646								
HODFV95	HODFV95R	1472	587 - 718	3647								
HODFY38	HODFY38R	1473	22 - 309	3648	Lys-8 to Tyr-26, Thr-67 to Met-73.				H0615: 2, S0444: 1, L0438: 1 and L0439: 1.			
HODGA29	HODGA29R	1474	186 - 308	3649	Val-1 to Ser-9, Gln-22 to Ser-29.							
HODGB69	HODGB69R	1475	3 - 95	3650								
HODGB78	HODGB78R	1476	91 - 225	3651	Thr-14 to Asn-19.							
HODGE22	HODGE22R	1477	129 - 407	3652								
HODGH30	HODGH30R	1478	25 - 132	3653	Thr-7 to Ser-14, Pro-28 to Gly-36.							
HODGH43	HODGH43R	1479	36 - 128	3654	His-8 to Gly-18, Phe-25 to Gly-30.							
HODGH65	HODGH65R	1480	2 - 166	3655					H0615: 2			
HODGL65	HODGL65R	1481	127 - 300	3656					L0754: 2, L0756: 2, H0615: 1, L0438: 1 and L0747: 1.			
HODGN53	HODGN53R	1482	2 - 583	3657	Lys-1 to Thr-7, Ser-13 to Arg-33, Val-56 to Lys-63, Phe-143 to Thr-148.				L0741: 4, H0615: 2, L0769: 2, L0793: 2, H0328: 1, S0144: 1, L0794: 1, L0499: 1, L0805: 1, L0438: 1 and L0755: 1.			

HODGO02	HODGO02R	1483	361 - 561	3658				
HODGO09	HODGO09R	1484	1 - 348	3659			H0615: 2 and L0779: 1.	
HODGO21	HODGO21R	1485	2 - 193	3660	Glu-23 to Val-28, Arg-56 to Ser-64.			
HODGP53	HODGP53R	1486	1 - 198	3661				
HODGQ52	HODGQ52R	1487	9 - 131	3662				
HODGS83	HODGS83R	1488	205 - 354	3663				
HODGW91	HODGW91R	1489	182 - 3	3664	Lys-1 to Gly-12, Pro-25 to Thr-37, Ser-46 to Gly-51.			
HODGX46	HODGX46R	1490	358 - 513	3665			H0615: 3 and L0766: 1.	
HODGX91	HODGX91R	1491	219 - 572	3666				
HODGY90	HODGY90R	1492	379 - 573	3667				
HODGZ63	HODGZ63R	1493	1 - 504	3668	Pro-30 to Asn-35, Arg-39 to Asn-57, Ser-62 to Ile-67, Glu-73 to Arg-81, Lys-89 to Lys-99.		L0805: 19, L0794: 13, L0766: 12, L0740: 11, L0747: 11, L0779: 11, L0803: 8, H0521: 7, L0439: 7, L0731: 7, L0605: 7, S0474: 6, S0422: 6, L0769: 6, L0776: 5, L0665: 5, L0748: 5, L0758: 5, H0618: 4, S0010: 4, L0771: 4, L0789: 4, S3014: 4, H0341: 3, H0615: 3, L0659: 3, S0052: 3, L0438: 3,	

				H0658: 3, H0436: 3, L0752: 3, L0759: 3, S0360: 2, S0222: 2, H0574: 2, H0599: 2, H0196: 2, H0050: 2, H0266: 2, H0708: 2, H0135: 2, H0038: 2, H0616: 2, L0804: 2, H0144: 2, S0374: 2, L0352: 2, H0682: 2, L0743: 2, L0744: 2, L0751: 2, L0749: 2, L0756: 2, S0424: 2, H0624: 1, T0002: 1, H0657: 1, L0785: 1, H0671: 1, S0442: 1, S0408: 1, H0733: 1, S0278: 1, H0431: 1, H0013: 1, S0280: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, L0040: 1, H0123: 1, L0471: 1, H0630: 1, H0375: 1, S0003: 1, H0252: 1, L0483: 1, T0006: 1, H0644: 1, H0673: 1, S0036: 1, H0163: 1, H0040: 1, H0551: 1, H0412: 1, H0413: 1, S0038: 1,	
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									H0509: 1, H0131: 1, S0344: 1, L0598: 1, L0369: 1, L0763: 1, L0770: 1, L0638: 1, L0667: 1, L0662: 1, L0363: 1, L0768: 1, L0775: 1, L0375: 1, L0806: 1, L0653: 1, L0655: 1, L0809: 1, S0126: 1, H0689: 1, H0684: 1, H0660: 1, H0672: 1, H0710: 1, H0522: 1, S0146: 1, S3012: 1, S0027: 1, S0028: 1, L0745: 1, L0750: 1, L0780: 1, L0753: 1, H0445: 1, L0362: 1, L0361: 1, H0653: 1, H0423: 1 and H0506: 1.				
HODGZ76	HODGZ76R	1494	12 - 179	3669									
HODHD23	HODHD23R	1495	3 - 134	3670	Pro-8 to Asn-18, Gln-25 to Glu-30.								
HODHD64	HODHD64R	1496	14 - 205	3671	Tyr-33 to Tyr-38.	H0615: 2							
HODHE36	HODHE36R	1497	190 - 366	3672		H0328: 1 and H0615: 1.							
HODHE54	HODHE54R	1498	3 - 515	3673	Glu-7 to Tyr-12, Glu-44 to Asp-49, Pro-57 to Gly-64, Leu-69 to Arg-74.								

HODHE88	HODHE88R	1499	2 - 166	3674	Thr-76 to Tyr-86. Lys-42 to Asp-48.	H0328: 1 and H0615: 1.		
HODHG56	HODHG56R	1500	82 - 300	3675	Glu-11 to Trp-17, Val-22 to Ser-29, Asp-45 to Lys-52.			
HODHJ56	HODHJ56R	1501	281 - 499	3676	Trp-12 to Ile-18, Gln-40 to Leu-54.			
HODHK82	HODHK82R	1502	71 - 238	3677	Lys-17 to Ala-24.			
HODHK86	HODHK86R	1503	2 - 292	3678	Glu-1 to Gln-7, Met-64 to Gly-69.			
HODIG29	HODIG29R	1504	2 - 115	3679				
HODJL36	HODJL36RA	1505	218 - 472	3680	Lys-9 to Ser-15, Val-42 to Thr-50.	H0261: 1 and H0615: 1.		
HODJZ09	HODJZ09R	1506	31 - 594	3681	Phe-116 to Met-126.	AR104: 14, AR096: 13, AR089: 11, AR060: 10, AR055: 6, AR061: 5 H0615: 3, H0658: 2, H0661: 1 and L0355: 1.		
HODKB19	HODKB19R	1507	504 - 746	3682				
HODKB82	HODKB82R	1508	3 - 344	3683	Gln-40 to Glu-48, Phe-68 to Arg-77, Ile-108 to Glu-113.			
HODKB89	HODKB89R	1509	73 - 216	3684				
HODKB93	HODKB93R	1510	1 - 159	3685	Arg-33 to Thr-38.			
HODKC29	HODKC29R	1511	1 - 486	3686		S0360: 9, L0642: 5, L0752: 5, L0662: 4, L0659: 4, L0666: 4,		

S0007: 3, L0646: 3, L0776: 3, L0750: 3, H0662: 2, S0444: 2, S0222: 2, L0483: 2, L0764: 2, L0648: 2, L0775: 2, L0665: 2, H0648: 2, L0779: 2, S0031: 2, S0110: 1, H0638: 1, S0418: 1, S0376: 1, S0408: 1, L0717: 1, H0331: 1, H0574: 1, S0414: 1, H0492: 1, H0156: 1, L0021: 1, S0049: 1, H0310: 1, H0327: 1, H0373: 1, T0010: 1, S6028: 1, H0615: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0413: 1, T0041: 1, H0494: 1, S0438: 1, S0440: 1, H0509: 1, S0142: 1, S0210: 1, L0598: 1, L0762: 1, L0640: 1, L0631: 1, L0772: 1, L0766: 1, L0551: 1, L0774: 1, L0664: 1, H0547: 1, S0126: 1, H0659: 1, S0378: 1, S0152: 1,							
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								H0696: 1, S3014: 1, L0439: 1, L0740: 1, L0754: 1, L0756: 1, L0780: 1, L0755: 1, L0758: 1, S0434: 1 and H0667: 1.			
HODKC67	HODKC67R	1512	242 - 373	3687				H0615: 2			
HODKD20	HODKD20R	1513	43 - 213	3688			Arg-11 to Ser-17, Leu-51 to Pro-57.				
HODKD64	HODKD64R	1514	413 - 237	3689			Pro-5 to Asn-10.	H0615: 2 and H0696: 1.			
HODKE85	HODKE85R	1515	314 - 412	3690			Ser-18 to Ile-23.	H0615: 2 and H0328: 1.			
HODKF91	HODKF91R	1516	244 - 417	3691			Lys-12 to Ser-18.				
HODKG09	HODKG09R	1517	28 - 240	3692							
HODKJ77	HODKJ77R	1518	452 - 595	3693				H0615: 2			
HODKK26	HODKK26R	1519	2 - 415	3694			Asp-40 to Gly-45, Leu-59 to Glu-67, Lys-95 to Ile-105, Asp-113 to Gly-118.				
HODKK40	HODKK40R	1520	1 - 642	3695			Ser-15 to Phe-23, Lys-41 to Tyr-46, Pro-48 to Val-59, Thr-90 to Ile-103, Ser-110 to Arg-116, Pro-123 to Lys-137, Lys-157 to Glu-167, Arg-178 to Arg-194.				
HODKK73	HODKK73R	1521	3 - 344	3696			Phe-106 to Pro-114.				

HODKK77	HODKK77R	1522	272 - 433	3697	Ser-8 to Asn-15.	H0615: 2		
HODKL56	HODKL56R	1523	439 - 579	3698				
HODKM25	HODKM25R	1524	36 - 149	3699				
HODKM31	HODKM31R	1525	1 - 210	3700				
HODKN65	HODKN65R	1526	2 - 409	3701				
HOECR39	HOECR39R	1527	20 - 328	3702		H0659: 4, L0770: 3, L0747: 3, H0663: 2, S0360: 2, L0521: 2, L0776: 2, S0126: 2, H0658: 2, S0406: 2, L0755: 2, L0758: 2, L0759: 2, S0242: 2, T0002: 1, H0686: 1, H0341: 1, L0616: 1, S0354: 1, S0408: 1, H0052: 1, H0009: 1, H0083: 1, H0266: 1, H0615: 1, L0483: 1, H0040: 1, H0561: 1, S0422: 1, L0520: 1, L0625: 1, L0662: 1, L0766: 1, L0649: 1, L0519: 1, H0648: 1, S3014: 1, L0748: 1 and L0779: 1.		
HOFA77	HOFA77R	1528	1 - 399	3703	Glu-10 to Ala-26, Lys-31 to Tyr-43, Lys-45 to Glu-50, Ile-96 to Lys-102, Asp-123 to Gly-128.			

HOFMF37	HOFMF37R	1529	95 - 277	3704				
HOFMF79	HOFMF79RA	1530	85 - 219	3705				
HOFMJ88	HOFMJ88R	1531	2 - 397	3706	Arg-1 to Phe-16.			
HOFMJ93	HOFMJ93R	1532	1 - 162	3707	His-3 to Ala-19.			
HOFMM84	HOFMM84R	1533	1 - 204	3708				
HOFMN93	HOFMN93R	1534	69 - 323	3709	Glu-8 to Thr-14.	H0415: 2		
HOFMP59	HOFMP59R	1535	1 - 423	3710	Ala-5 to Arg-14.			
HOFMT68	HOFMT68R	1536	50 - 289	3711	Asn-41 to Lys-56.			
HOFMT69	HOFMT69R	1537	1 - 264	3712				
HOFMU92	HOFMU92R	1538	1 - 369	3713				
HOFMV06	HOFMV06R	1539	3 - 296	3714	Asp-1 to Leu-10.			
HOFNF63	HOFNF63R	1540	2 - 481	3715	Arg-1 to Arg-8, Ala-22 to Met-31, Asp-51 to Gln-56.	H0415: 2		
HOFNF76	HOFNF76R	1541	2 - 421	3716	Arg-1 to Ala-6, Ser-68 to Arg-73, Arg-87 to Ala-93.			
HOFNG51	HOFNG51R	1542	25 - 387	3717	Arg-1 to Cys-10, Glu-75 to Arg-94, Arg-99 to Gly-115.			
HOFNK44	HOFNK44R	1543	1 - 186	3718	Lys-52 to Asp-57.			
HOFNY53	HOFNY53R	1544	2 - 232	3719	Arg-1 to Phe-7, Gly-24 to Arg-36.			
HOFOB65	HOFOB65R	1545	1 - 453	3720				
HOFOB79	HOFOB79RP 00A	1546	2 - 682	3721	Val-31 to Val-38, Phe-46 to Ile-59, Arg-120 to Gln-126.			
HOFOE22	HOFOE22R	1547	1 - 345	3722				
HOFOF47	HOFOF47R	1548	3 - 326	3723	Asn-49 to Leu-54.			

HOFOF56	HOFOF56R	1549	1 - 351	3724	Ala-4 to Arg-11.			
HOGAC46	HOGAC46R	1550	35 - 193	3725	Ala-1 to Tyr-6, Ile-17 to Ser-32.			
HOGAQ03	HOGAQ03R	1551	110 - 286	3726	Pro-34 to Lys-39.	H0436: 44, L0748: 14, L0439: 9, L0747: 9, L0769: 7, L0803: 7, L0740: 7, L0755: 7, L0758: 7, L0761: 6, L0662: 6, L0794: 6, L0766: 6, L0663: 6, L0779: 6, H0542: 6, L0717: 5, L0756: 5, H0052: 4, H0135: 4, L0774: 4, L0659: 4, L0665: 4, L0777: 4, L0780: 4, L0731: 4, L0759: 4, H0556: 3, S0420: 3, S0410: 3, S0422: 3, L0763: 3, L0649: 3, L0804: 3, L0805: 3, L0776: 3, L0438: 3, H0547: 3, H0672: 3, H0539: 3, L0754: 3, L0757: 3, L0591: 3, H0422: 3, S0040: 2, S0114: 2, S0116: 2, H0255: 2, H0619: 2, H0486: 2, T0039: 2, H0013: 2, H0635: 2, H0253: 2,		

H0318: 2, S0049: 2, H0046: 2, L0041: 2, H0688: 2, H0428: 2, H0628: 2, L0055: 2, H0040: 2, H0087: 2, H0488: 2, H0100: 2, T0042: 2, H0529: 2, L5566: 2, L0667: 2, L0771: 2, L0768: 2, L0375: 2, L0517: 2, L0809: 2, L0666: 2, H0520: 2, H0519: 2, H0593: 2, S0380: 2, H0694: 2, L0742: 2, L0751: 2, L0750: 2, S0434: 2, S0436: 2, L0361: 2, L0601: 2, L0603: 2, S0424: 2, H0506: 2, H0265: 1, H0650: 1, H0657: 1, H0656: 1, L0760: 1, H0341: 1, S0001: 1, H0663: 1, H0662: 1, S0418: 1, S0356: 1, S0408: 1, H0580: 1, S0007: 1, H0229: 1, S0045: 1, S0046: 1, S0132: 1, H0351: 1, H0411: 1, H0431: 1, H0592: 1, H0497: 1,					
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	H0069: 1, S0280: 1, H0118: 1, H0618: 1, S0010: 1, H0421: 1, H0251: 1, H0204: 1, H0572: 1, H0050: 1, H0012: 1, H0373: 1, H0051: 1, T0010: 1, H0354: 1, H0252: 1, H0328: 1, H0622: 1, H0181: 1, H0617: 1, H0673: 1, H0038: 1, H0634: 1, H0616: 1, H0155: 1, H0264: 1, S0038: 1, H0022: 1, H0625: 1, H0538: 1, S0210: 1, S0002: 1, L0762: 1, L0770: 1, L5565: 1, L0373: 1, L0800: 1, L0642: 1, L0374: 1, L0764: 1, L0364: 1, L0388: 1, L0655: 1, L0657: 1, L0526: 1, L0518: 1, L0382: 1, L0789: 1, L0792: 1, L0664: 1, H0723: 1, H0726: 1, S0126: 1, H0689: 1, H0690: 1, H0682: 1, H0435: 1, H0670: 1, H0648: 1, S0330: 1,	
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H0GBE60	HQGBE60R	1552	265 - 591	3727	Asp-15 to His-22.	S0378: 1, S0152: 1, S0406: 1, H0555: 1, H0678: 1, L0744: 1, L0752: 1, L0753: 1, H0445: 1, H0707: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, H0665: 1, S0196: 1, H0543: 1 and H0677: 1.		
						L0777: 7, L0747: 6, L0779: 6, L0748: 5, L0776: 4, L0749: 4, L0770: 3, L0766: 3, L0759: 3, S0442: 2, L0769: 2, L0761: 2, L0771: 2, L0774: 2, L0527: 2, L0783: 2, L0665: 2, L0757: 2, L0758: 2, S0412: 2, H0402: 1, S0444: 1, H0438: 1, H0587: 1, H0333: 1, L0471: 1, H0674: 1, H0646: 1, L0763: 1, L0643: 1, L0764: 1, L0662: 1, L0363: 1, L0767: 1, L0387: 1, L0803: 1, L0526: 1, L0647: 1, L0663: 1, H0690: 1,		

									H0435: 1, S0330: 1, S0406: 1, L0740: 1, L0751: 1, L0780: 1, S0436: 1 and L0596: 1.			
HOGCF48	HOGCF48R	1553	230 - 436	3728								
HOGCG83	HOGCG83R	1554	50 - 409	3729								
HOGCH23	HOGCH23R	1555	58 - 207	3730								
HOGCI28	HOGCI28R	1556	3 - 332	3731					H0435: 4, H0726: 3, L0748: 3, H0355: 2, H0059: 2, L0525: 2, H0713: 1, H0717: 1, H0586: 1, H0427: 1, H0575: 1, H0744: 1, H0327: 1, H0271: 1, H0622: 1, H0087: 1, S0438: 1, L0792: 1, H0593: 1, H0555: 1, L0698: 1 and H0506: 1.			
HOGCI10	HOGCI10R	1557	10 - 480	3732					H0052: 1, H0135: 1, H0429: 1, H0519: 1 and H0435: 1.			
HOGCI42	HOGCI42R	1558	3 - 254	3733				Val-6 to Ala-11.				
HOGCI55	HOGCI55R	1559	7 - 507	3734				Thr-56 to Glu-61, Lys-87 to Lys-95, Thr-110 to Arg-118.				
HOGCP07	HOGCP07R	1560	3 - 143	3735								
HOGCP86	HOGCP86RA	1561	1 - 486	3736				Arg-11 to Arg-16, Pro-46 to Thr-52, His-58 to Pro-65,				

							Ala-71 to Tyr-77, Pro-134 to Gly-146.			
HOGCT44	HOGCT44R	1562	1 - 183	3737			His-14 to Phe-20, Ser-37 to Gly-60.			
HOGCV85	HOGCV85R	1563	3 - 443	3738			Gly-20 to Leu-28, Val-33 to Gly-41, Thr-43 to Gly-55, Val-58 to Arg-66.			
HOGCV93	HOGCV93R	1564	22 - 513	3739			Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52, Leu-70 to Arg-76, Phe-87 to Tyr-92.			
HOGCY12	HOGCY12R	1565	2 - 235	3740			Lys-2 to Thr-8, Asp-19 to Thr-25, Gly-34 to Glu-47, Leu-65 to Arg-71.			
HOGCY58	HOGCY58R	1566	3 - 338	3741			Asn-5 to Gln-12, Gln-19 to Glu-25, Arg-78 to Glu-99, Thr-106 to Ala-111.			
HOGCY74	HOGCY74R	1567	3 - 260	3742			Arg-1 to Asn-8, Phe-18 to His-24, Asp-57 to Lys-62, Lys-76 to Asp-81.			
HOGDD29	HOGDD29R	1568	3 - 152	3743						
HOGDE77	HOGDE77R	1569	95 - 184	3744						
HOGDG03	HOGDG03R	1570	2 - 397	3745			Thr-9 to His-19, Leu-35 to Ala-46,			

HOGDG76	HOGDG76R	1571	3 - 497	3746	Pro-55 to Pro-60, Gly-69 to Arg-74.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.		
HOGDI44	HOGDI44R	1572	1 - 342	3747	Gln-58 to Gln-64, Cys-73 to Arg-88.			
HOGDI49	HOGDI49R	1573	124 - 357	3748				
HOGDO25	HOGDO25R	1574	2 - 322	3749	Pro-38 to Met-44.			
HOGDO58	HOGDO58R	1575	74 - 244	3750	Pro-6 to Tyr-17, Val-39 to Gln-45.			
HOGDP10	HOGDP10R	1576	3 - 299	3751	Glu-3 to Glu-14.			
HOGDQ54	HOGDQ54R	1577	3 - 335	3752				
HOGDQ95	HOGDQ95R	1578	22 - 492	3753	Arg-9 to Val-17.			
HOGDR70	HOGDR70R	1579	48 - 470	3754	Arg-9 to Arg-18, Arg-27 to Arg-35, Arg-47 to Asp-55, Asp-78 to Lys-83.			
HOGDV93	HOGDV93R	1580	1 - 417	3755	Gly-1 to Ala-6, Glu-54 to Ile-62, Asp-89 to Thr-98.			
HOGEA27	HOGEA27R	1581	2 - 241	3756				
HOGED85	HOGED85R	1582	3 - 326	3757	Tyr-94 to Phe-99.			
HOG EK25	HOG EK25R	1583	2 - 325	3758				
HOGEN30	HOGEN30R	1584	2 - 325	3759	Leu-3 to Arg-19.			
HOGEN55	HOGEN55R	1585	2 - 226	3760				

HOGEP46	HOGEP46R	1586	3 - 212	3761	Gly-17 to Asn-27, Ser-51 to His-61.	L0521: 1, L0662: 1 and H0435: 1.		
HOGEP69	HOGEP69R	1587	2 - 223	3762		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2, H0646: 2, L0640: 2,		
HOGEP60	HOGEP60R	1588	2 - 376	3763				

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							L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1.			
H0GEU84	H0GEU84R	1589	3 - 368	3764	Pro-8 to Asn-34, Ala-39 to Arg-53.		AR096: 1, AR104: 1, AR055: 0, AR061: 0, AR060: 0, AR089: 0 S0250: 1 and H0435: 1.			
H0GEW58	H0GEW58R	1590	1 - 417	3765						
H0GEW72	H0GEW72R	1591	256 - 333	3766						
H0GEZ03	H0GEZ03R	1592	52 - 144	3767						
H0GEZ27	H0GEZ27R	1593	2 - 307	3768						
HOHDI15	HOHDI15R	1594	3 - 170	3769						
HOHOB44	HOHOB44R	1595	128 - 313	3770	Ser-1 to Gln-6, Ser-51 to Thr-56.					
HOHOC27	HOHOC27R	1596	9 - 194	3771	Gly-4 to Lys-10.					
HOHJ369	HOHJ369R	1597	9 - 152	3772	Gly-4 to Lys-10.		H0637: 2, H0413: 1 and H0648: 1.			
HOHOK47	HOHOK47R	1598	126 - 260	3773						
HOHOL15	HOHOL15R	1599	60 - 383	3774						
HOHOL19	HOHOL19R	1600	14 - 205	3775	Pro-17 to Ser-24.					

HOOHL68	HOOHL68R	1601	271 - 570	3776		L0748: 11, L0666: 5, L0750: 5, L0805: 4, L0663: 4, L0664: 4, L0439: 4, L0662: 3, L0758: 3, L0005: 2, H0587: 2, H0318: 2, H0052: 2, H0024: 2, H0553: 2, L0770: 2, L0648: 2, L0766: 2, L0497: 2, L0665: 2, H0519: 2, H0648: 2, L0740: 2, L0731: 2, L0593: 2, H0677: 2, H0170: 1, H0583: 1, H0638: 1, H0586: 1, H0331: 1, H0486: 1, H0013: 1, H0156: 1, H0036: 1, L0040: 1, H0620: 1, S6028: 1, H0328: 1, H0615: 1, T0023: 1, S0036: 1, H0591: 1, H0040: 1, T0067: 1, S0472: 1, H0529: 1, L0761: 1, L0764: 1, L0771: 1, L0649: 1, L0803: 1, L0804: 1, L0775: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L0790: 1, H0144: 1,		
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							L0438: 1, H0672: 1, H0522: 1, S0392: 1, L0747: 1, L0749: 1, L0756: 1, L0752: 1, H0445: 1, L0591: 1 and H0422: 1.			
HOHP84	HOHP84R	1602	1 - 186	3777						
HOHQ09	HOHQ09R	1603	161 - 313	3778			Lys-1 to Lys-13.			
HOHQ83	HOHQ83R	1604	67 - 399	3779			Pro-10 to Ser-37, Gln-41 to Thr-57, Arg-62 to Thr-68, Pro-80 to Lys-85, Gly-99 to Gly-106.			
HOHR81	HOHR81R	1605	336 - 500	3780						
HOHS67	HOHS67R	1606	69 - 281	3781						
HOHS82	HOHS82R	1607	53 - 145	3782						
HOHT13	HOHT13R	1608	3 - 194	3783			Glu-1 to Glu-11.			
HOHX50	HOHX50R	1609	17 - 163	3784						
HOIA46	HOIA46R	1610	3 - 239	3785						
							L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5, S0376: 4, S0360: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, H0341: 3, S0358: 3,			

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HO01A57	HO01A57R	1611	251 - 361	3786				H0375: 1, H0428: 1, H0708: 1, H0634: 1, H0412: 1, H0413: 1, L0475: 1, H0386: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0646: 1, L0773: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0791: 1, L0663: 1, L0665: 1, H0691: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0651: 1, S0380: 1, S0406: 1, L0749: 1, L0780: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1 and H0506: 1.		
HO01A57	HO01A57R	1611	251 - 361	3786				L0803: 14, L0439: 9, L0752: 9, L0666: 7, L0659: 5, S0328: 5, L0756: 5, L0731: 5, L0794: 4, S0412: 4, S0360: 3, H0634: 3,		

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HOOIB34	HOOIB34R	1612	46 - 153	3787					H0553: 1, H0644: 1, H0628: 1, H0673: 1, S0364: 1, H0316: 1, H0598: 1, H0090: 1, H0087: 1, H0551: 1, T0067: 1, H0488: 1, H0623: 1, H0494: 1, L0475: 1, H0560: 1, H0509: 1, S0150: 1, H0641: 1, S0422: 1, S0426: 1, H0529: 1, L0770: 1, L0761: 1, L0627: 1, L0646: 1, L0773: 1, L0521: 1, L0768: 1, L0766: 1, L0527: 1, L0647: 1, L0789: 1, L0663: 1, S0428: 1, S0374: 1, H0519: 1, H0435: 1, H0659: 1, H0672: 1, H0518: 1, H0522: 1, H0134: 1, L0356: 1, L0745: 1, L0747: 1, L0779: 1, L0759: 1, L0589: 1, L0592: 1, L0608: 1, L0594: 1, S0026: 1, H0136: 1 and S0242: 1.		
HOOIB54	HOOIB54R	1613	2 - 199	3788							

HOOIF71	HOOIF71R	1614	3 - 389	3789				
HOOIG71	HOOIG71R	1615	2 - 301	3790	Ile-1 to Lys-7, Gly-13 to Lys-19, Pro-59 to Arg-76.			
HOOIK04	HOOIK04R	1616	2 - 172	3791	Val-50 to Arg-56.			
HOOIL33	HOOIL33R	1617	97 - 264	3792	Leu-41 to Ser-52.			
HOOIO53	HOOIO53R	1618	3 - 164	3793				
HOOIR94	HOOIR94R	1619	20 - 109	3794				
HOOJA64	HOOJA64R	1620	272 - 400	3795				
HOOJB36	HOOJB36R	1621	118 - 315	3796				
HOOJE93	HOOJE93R	1622	125 - 268	3797				
HOOJK91	HOOJK91R	1623	80 - 211	3798				
HOOJN84	HOOJN84R	1624	1 - 189	3799	Asp-48 to Thr-54, Glu-57 to Ser-63.	L0758: 14, L0747: 10, L0752: 10, L0731: 10, L0663: 9, H0547: 9, L0740: 9, L0666: 8, H0046: 7, S0126: 7, L0748: 7, H0539: 6, L0439: 6, L0759: 6, L0595: 6, H0543: 6, H0050: 5, H0031: 5, H0648: 5, S0328: 5, H0624: 4, H0657: 4, H0656: 4, S0007: 4, H0549: 4, H0550: 4, H0591: 4, H0616: 4, H0551: 4, L0769: 4, L0662: 4, L0659: 4, H0144: 4, L0438: 4,		

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	H0580: 1, S0045: 1, H0440: 1, H0431: 1, T0104: 1, H0600: 1, H0632: 1, H0559: 1, H0485: 1, H0069: 1, S0280: 1, L0021: 1, H0042: 1, H0706: 1, H0505: 1, H0581: 1, H0421: 1, H0052: 1, L0471: 1, S0051: 1, H0266: 1, H0267: 1, S0316: 1, H0028: 1, H0252: 1, H0615: 1, H0644: 1, H0169: 1, H0598: 1, H0163: 1, H0038: 1, H0372: 1, H0412: 1, H0413: 1, H0623: 1, T0004: 1, S0372: 1, S0448: 1, S0440: 1, S0150: 1, S0344: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0761: 1, L0648: 1, L0521: 1, L0363: 1, L0649: 1, L0650: 1, L0523: 1, L0806: 1, L0653: 1, L0606: 1, L0661: 1, L0527: 1, L0809: 1, H0658: 1,				
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							H0672: 1, S0330: 1, S0152: 1, H0696: 1, S0406: 1, H0555: 1, H0478: 1, S0432: 1, L0786: 1, S0260: 1, H0445: 1, L0366: 1, S0026: 1, H0667: 1, H0423: 1, S0424: 1, S0446: 1 and H0008: 1.			
HOOJP58	HOOJP58R	1625	93 - 248	3800						
HOOJR60	HOOJR60R	1626	160 - 306	3801			H0648: 2, H0436: 2, L0748: 2, S0360: 1, L0766: 1, L0803: 1 and L0779: 1.			
HOOJR72	HOOJR72R	1627	77 - 265	3802						
HOOJS84	HOOJS84R	1628	78 - 290	3803						
HOOJT32	HOOJT32R	1629	1 - 237	3804						
HOOJT65	HOOJT65R	1630	2 - 340	3805	Ala-2 to Asp-10.					
HOOJV78	HOOJV78R	1631	318 - 560	3806			H0486: 1 and H0648: 1.			
HOOJX42	HOOJX42R	1632	317 - 463	3807						
HOOJX80	HOOJX80R	1633	106 - 267	3808	Arg-11 to Pro-22, Asn-42 to Lys-48.		L0731: 2, H0483: 1, T0007: 1, T0039: 1, H0562: 1, L0769: 1, L0766: 1, H0670: 1, H0648: 1, L0756: 1, L0755: 1, L0758: 1, L0759: 1 and L0485: 1.			
HOOJY17	HOOJY17R	1634	147 - 479	3809	Pro-8 to Phe-18.					

HOOJY41	HOOJY41R	1635	51 - 347	3810					
HOOJY44	HOOJY44R	1636	2 - 184	3811	Gln-1 to Cys-7, Asn-14 to Lys-22, Arg-29 to Leu-34, Glu-46 to Leu-54:				
HOOJY80	HOOJY80R	1637	1 - 462	3812	Ala-1 to Pro-6, Ala-22 to Glu-27, Glu-36 to Ser-45, Glu-62 to Gly-67, Gln-74 to Phe-83, Thr-90 to Ser-96, His-105 to Pro-116.				
HOOJY92	HOOJY92R	1638	3 - 437	3813		H0547: 16, H0090: 11, H0543: 10, H0542: 9, H0341: 8, L0471: 8, H0551: 8, S0358: 7, H0561: 7, S0126: 7, H0521: 7, H0657: 5, H0013: 5, S0440: 5, H0529: 5, H0144: 5, H0519: 5, H0265: 4, S0040: 4, H0264: 4, H0560: 4, H0520: 4, S0027: 4, L0731: 4, L0591: 4, L0592: 4, L0595: 4, H0423: 4, S0424: 4, H0170: 3, H0686: 3, H0638: 3, S0360: 3, S0410: 3, H0580: 3, H0486: 3,			

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							S0378: 1, H0696: 1, H0134: 1, H0555: 1, S0037: 1, S0206: 1, L0749: 1, S0031: 1, S0260: 1, H0445: 1, S0434: 1, L0599: 1, L0594: 1, H0422: 1 and S0456: 1.			
HOOKK83	HOOKK83R	1639	107 - 367	3814						
HOOKN43	HOOKN43R	1640	118 - 453	3815	Asp-1 to Lys-22.					
HOOKN71	HOOKN71R	1641	210 - 344	3816			H0657: 3, L0717: 2, H0421: 2, L0766: 2, L0666: 2, L0756: 2, L0759: 2, H0717: 1, H0587: 1, H0156: 1, L0021: 1, H0581: 1, H0014: 1, H0252: 1, S0422: 1, L0662: 1, L0794: 1, L0655: 1, L0809: 1, L0543: 1, L0791: 1, L0665: 1, H0658: 1, H0670: 1, H0648: 1, H0672: 1, H0696: 1, L0780: 1, S0434: 1 and H0506: 1.			
HOPJA09	HOPJA09R	1642	14 - 196	3817	Pro-20 to Gly-38.					
HOPJF95	HOPJF95R	1643	107 - 571	3818						
HOPJG60	HOPJG60R	1644	207 - 461	3819	Gly-69 to Glu-78.		L0775: 5, L0776: 5, L0747: 5, L0604: 5, L0769: 4, L0805: 4,			

HOPJG66	HOPJG66R	1645	2 - 136	3820	Pro-4 to Ser-29, Pro-31 to Ser-38.	L0777: 3, L0759: 3, L0774: 2, L0809: 2, L0758: 2, H0341: 1, H0484: 1, S0358: 1, S0444: 1, S0360: 1, S6026: 1, S0278: 1, H0156: 1, H0038: 1, H0616: 1, H0102: 1, L0770: 1, L0766: 1, L0804: 1, L0657: 1, L0789: 1, H0684: 1, H0696: 1, S0044: 1, L0756: 1 and L0780: 1.		
HOPJG66	HOPJG66R	1645	2 - 136	3820	Pro-4 to Ser-29, Pro-31 to Ser-38.	H0547: 41, L0751: 26, H0520: 18, S0344: 12, L0731: 11, T0006: 9, L0794: 9, L0753: 8, L0593: 8, S0278: 6, L0809: 6, H0135: 5, S0142: 5, L0800: 5, L0665: 5, L0743: 5, L0747: 5, H0024: 4, S0328: 4, L0759: 4, H0661: 3, H0594: 3, H0617: 3, L0657: 3, H0658: 3, H0666: 3, L0750: 3, L0752: 3, H0352: 3, H0664: 2, H0662: 2, H0041: 2, H0123: 2, H0081: 2.		

H0050: 2, H0099: 2, H0494: 2, S0002: 2, L0769: 2, L0806: 2, L0517: 2, L0382: 2, H0684: 2, H0660: 2, H0539: 2, S0152: 2, L0748: 2, L0587: 2, L0595: 2, H0294: 1, H0656: 1, H0484: 1, H0669: 1, H0208: 1, H0619: 1, H0586: 1, H0333: 1, H0427: 1, H0052: 1, H0251: 1, H0546: 1, H0545: 1, H0012: 1, H0688: 1, H0181: 1, H0606: 1, H0334: 1, H0646: 1, S0144: 1, S0426: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0662: 1, L0386: 1, L0803: 1, L0804: 1, L0774: 1, L0378: 1, L0805: 1, L0629: 1, L0558: 1, L0659: 1, L0783: 1, L0791: 1, H0689: 1, H0648: 1, S0330: 1, S0332: 1, H0436: 1, H0540: 1, S0028: 1, L0744: 1,
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HOPJG79	HOPJG79R	1646	3 - 542	3821	Ala-83 to Arg-91, Trp-99 to Tyr-105, Tyr-123 to Glu-128.	L0755: 1, L0757: 1, L0758: 1 and S0276: 1.	
HOPJG89	HOPJG89R	1647	166 - 597	3822	Gly-2 to Ala-13.		
HOPJH17	HOPJH17R	1648	321 - 464	3823			
HOPJH38	HOPJH38R	1649	148 - 285	3824		S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5, H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2	

H0036: 2, S0049: 2, H0052: 2, H0327: 2, H0687: 2, H0428: 2, H0553: 2, H0644: 2, H0038: 2, L0520: 2, L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1, H0550: 1, H0592: 1, H0587: 1, H0599: 1, H0042: 1, H0590: 1, H0318: 1, H0309: 1, H0545: 1, H0563: 1, H0564: 1, H0123: 1, H0019: 1, S0050: 1, L0163: 1, S0388: 1, H0356: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, H0031: 1, H0111: 1, H0169: 1, S0364: 1, L0455: 1, H0135: 1, H0163: 1,						
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HOPJH65	HOPJH65R	1650	6 - 497	3825	Ala-1 to Gly-11, Asn-20 to Pro-25.				
HOPJM63	HOPJM63R	1651	101 - 250	3826	Pro-20 to Glu-25,	S0010: 1, H0327: 1,			

HOPJU10	HOPJU10R	1652	78 - 269	3827	Lys-31 to Gly-36.	H0039: 1, H0622: 1, S0464: 1, L0803: 1, H0684: 1 and H0670: 1.		
					Phe-15 to Ser-22.	L0665: 7, L0747: 7, L0662: 6, L0766: 6, L0655: 5, L0659: 5, S0126: 5, L0717: 4, H0370: 4, L0763: 4, L0770: 4, L0646: 4, H0521: 4, L0748: 4, S0360: 3, H0009: 3, S0142: 3, S0344: 3, L0771: 3, L0774: 3, L0775: 3, L0663: 3, L0664: 3, L0740: 3, L0751: 3, L0750: 3, L0758: 3, L0601: 3, H0265: 2, H0657: 2, S0418: 2, S0420: 2, S0045: 2, T0039: 2, H0024: 2, T0010: 2, H0413: 2, S0144: 2, S0210: 2, L0667: 2, L0372: 2, L0642: 2, L0765: 2, L0653: 2, L0383: 2, L0666: 2, L0744: 2, L0439: 2, L0754: 2, L0756: 2, L0731: 2, L0599: 2, H0543: 2, L0615: 1.		

	H0556: 1, H0295: 1, S0114: 1, H0656: 1, L0778: 1, S0282: 1, H0255: 1, H0661: 1, H0402: 1, S0354: 1, S0358: 1, S0376: 1, H0351: 1, S0222: 1, H0600: 1, H0586: 1, H0333: 1, H0250: 1, T0082: 1, H0318: 1, H0421: 1, H0052: 1, L0738: 1, H0327: 1, H0051: 1, H0083: 1, S0003: 1, S0022: 1, S0214: 1, H0092: 1, T0023: 1, L0483: 1, T0006: 1, H0030: 1, H0628: 1, H0181: 1, H0169: 1, H0090: 1, H0058: 1, L0351: 1, T0041: 1, H0494: 1, S0015: 1, L0065: 1, S0426: 1, L0640: 1, L0769: 1, L0772: 1, L0641: 1, L0374: 1, L0764: 1, L0773: 1, L0648: 1, L0626: 1, L0768: 1, L0649: 1, L0784: 1, L0378: 1, L0806: 1, L0776: 1,				
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HOPJX48	HOPJX48R	1653	1 - 207	3828	Arg-5 to His-22, Ser-59 to Ala-69.	L0807: 1, L0657: 1, L0656: 1, L0783: 1, S0052: 1, S0428: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, H0684: 1, H0670: 1, H0660: 1, H0672: 1, H0522: 1, H0187: 1, H0576: 1, S0027: 1, S0206: 1, L0743: 1, L0757: 1, L0605: 1, L0590: 1, L0591: 1, L0581: 1, L0595: 1, S0026: 1, H0665: 1, H0667: 1, H0542: 1, H0423: 1 and H0352: 1.		
						H0445: 13, H0255: 11, L0666: 7, H0575: 5, H0059: 4, S0344: 4, L0655: 4, H0521: 4, H0522: 4, L0748: 4, L0751: 4, H0556: 3, S0278: 3, H0013: 3, H0181: 3, H0617: 3, S0142: 3, H0658: 3, H0660: 3, L0439: 3, H0423: 3, S0116: 2, H0341: 2, S0360: 2, H0580: 2, H0581: 2, H0014: 2, H0087: 2,		

L0663: 2, L0664: 2, L0665: 2, H0684: 2, L0741: 2, L0743: 2, H0170: 1, H0171: 1, H0265: 1, H0583: 1, H0657: 1, H0656: 1, L0470: 1, H0254: 1, H0664: 1, H0662: 1, S0420: 1, S0408: 1, H0393: 1, H0392: 1, H0613: 1, H0333: 1, L0622: 1, H0101: 1, H0250: 1, H0427: 1, L0021: 1, H0253: 1, S0346: 1, H0421: 1, H0596: 1, H0150: 1, H0620: 1, H0024: 1, H0428: 1, H0553: 1, H0169: 1, H0674: 1, S0366: 1, H0163: 1, H0040: 1, H0616: 1, H0063: 1, H0026: 1, H0517: 1, L0640: 1, L0770: 1, L0769: 1, L0761: 1, L0773: 1, L0559: 1, L0659: 1, L0790: 1, H0144: 1, H0593: 1, H0690: 1, H0709: 1, H0696: 1, H0187: 1, L0744: 1,
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L0565: 2, H0547: 2, H0521: 2, L0744: 2, L0439: 2, H0136: 2, H0543: 2, H0224: 1, H0225: 1, H0585: 1, S0114: 1, H0341: 1, H0484: 1, H0483: 1, H0671: 1, S0418: 1, S0354: 1, S0408: 1, S0007: 1, S0045: 1, H0261: 1, H0550: 1, H0586: 1, H0587: 1, H0497: 1, H0643: 1, H0257: 1, H0559: 1, H0485: 1, H0486: 1, S0346: 1, T0048: 1, T0071: 1, H0309: 1, H0041: 1, H0081: 1, H0050: 1, H0012: 1, H0620: 1, H0051: 1, S0388: 1, H0071: 1, H0083: 1, H0354: 1, H0594: 1, H0266: 1, H0179: 1, H0271: 1, H0292: 1, H0428: 1, H0424: 1, H0181: 1, H0135: 1, H0090: 1, H0063: 1, H0488: 1, H0433: 1, H0100: 1, T0041: 1, S0440: 1,
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							S0142: 1, H0538: 1, L0769: 1, L0764: 1, L0803: 1, L0809: 1, H0593: 1, H0683: 1, H0684: 1, H0435: 1, S0044: 1, L0747: 1, S0031: 1, H0445: 1, L0593: 1 and L0601: 1.			
HOPKN14	HOPKN14R	1663	2 - 460	3838	Gly-63 to Ala-69, Gly-104 to Leu-110, Gly-130 to Gly-136.					
HOPKN67	HOPKN67R	1664	22 - 483	3839						
HOPKO04	HOPKO04RA	1665	170 - 319	3840			L0803: 6, L0731: 4, S0440: 3, L0662: 3, L0809: 3, L0665: 3, S0276: 3, H0486: 2, H0318: 2, L0794: 2, L0805: 2, L0776: 2, L0663: 2, H0684: 2, L0740: 2, L0759: 2, L0592: 2, H0624: 1, L0448: 1, H0341: 1, S0282: 1, H0663: 1, S0360: 1, H0580: 1, L0468: 1, H0587: 1, H0427: 1, H0575: 1, S0010: 1, L0471: 1, H0644: 1, H0383: 1, H0169: 1, L0456: 1, H0090: 1, H0264: 1,			

									H0412: 1, H0561: 1, S0150: 1, S0002: 1, H0529: 1, L0638: 1, L5565: 1, L0372: 1, L0649: 1, L0388: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, H0519: 1, S0380: 1, H0522: 1, H0436: 1, L0747: 1, L0752: 1, L0757: 1, L0599: 1, H0542: 1, H0543: 1 and H0422: 1.			
HOPKO61	HOPKO61R	1666	1 - 405	3841								
HOPKP45	HOPKP45R	1667	282 - 536	3842								
HOPKQ20	HOPKQ20R	1668	19 - 402	3843	Ser-19 to Arg-29, Asp-37 to Val-43, Ala-75 to Leu-80, Thr-96 to Arg-111.							
HOPKQ82	HOPKQ82R	1669	1 - 519	3844								
HOPKR56	HOPKR56R	1670	3 - 173	3845					L0439: 15, L0666: 8, S0222: 6, L0794: 5, L0638: 3, L0805: 3, L0664: 3, L0758: 3, L0592: 3, S0010: 2, L0770: 2, L0438: 2, H0624: 1, H0170: 1, S6024: 1, H0441: 1, S0414: 1, H0052: 1, H0572: 1, S6028: 1.			

HOPKU33	HOPKU33R	1671	2 - 274	3846				H0688: 1, H0616: 1, L0769: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0809: 1, L0789: 1, L0792: 1, H0519: 1, H0684: 1, L0745: 1, L0747: 1, L0756: 1, L0786: 1, L0753: 1, L0731: 1, L0759: 1 and L0366: 1.		
HOVBH23	HOVBH23R	1672	2 - 136	3847	Gly-1 to Val-7.					
HOVBK37	HOVBK37R	1673	237 - 551	3848	Pro-7 to Trip-14.			L0794: 16, L0809: 6, S0360: 4, H0617: 3, L0803: 3, S0114: 2, H0288: 2, H0688: 2, H0494: 2, L0375: 2, L0731: 2, L0588: 2, H0556: 1, S0134: 1, H0484: 1, S0420: 1, H0637: 1, H0441: 1, H0370: 1, H0438: 1, H0592: 1, T0109: 1, S0010: 1, H0150: 1, H0009: 1, H0081: 1, H0271: 1, H0428: 1, S0368: 1, H0424: 1, H0181: 1, H0124: 1, S0438: 1, S0440: 1.		

							S0144: 1, S0142: 1, S0344: 1, L0637: 1, L5566: 1, L0761: 1, L0764: 1, L0648: 1, L0662: 1, L0364: 1, L0766: 1, L5574: 1, L0805: 1, L0783: 1, L0647: 1, L0789: 1, L0665: 1, H0520: 1, H0547: 1, H0670: 1, H0660: 1, H0648: 1, S0380: 1, H0521: 1, H0555: 1, S3012: 1, L0748: 1, L0779: 1, L0780: 1, L0757: 1, L0759: 1 and H0352: 1.			
HOVBK49	HOVBK49R	1674	3 - 86	3849			His-7 to Lys-20.			
HOVBS15	HOVBS15R	1675	144 - 404	3850			Glu-13 to Trp-32, Pro-34 to Asn-45.			
HOVBX41	HOVBX41R	1676	41 - 349	3851						
HOVCL23	HOVCL23R	1677	342 - 524	3852				S0360: 2, H0497: 2, H0333: 1, H0004: 1, H0428: 1, H0674: 1, S0422: 1, L0763: 1, L0803: 1, H0648: 1 and S0276: 1.		
HOVCN03	HOVCN03R	1678	2 - 127	3853			Gly-1 to Glu-7, Gly-29 to Ala-36.			
HOVCO26	HOVCO26R	1679	395 - 580	3854						
HOVCU89	HOVCU89R	1680	3 - 578	3855			Lys-63 to Ser-69,			

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HOVDH75	HOVDH75R	1694	43 - 348	3869	Gln-14 to Gln-19, Arg-25 to Glu-37, Asn-44 to Arg-50, Glu-67 to Leu-75, Thr-105 to Gly-114.	L0794: 10, L0803: 7, L0747: 6, H0657: 5, H0597: 4, H0617: 4, L0764: 4, L0809: 4, L0758: 4, L0759: 4, L0800: 3, L0804: 3, L0775: 3, H0659: 3, H0543: 3, H0231: 2, L0471: 2, H0673: 2, H0674: 2, L0763: 2, L0770: 2, L0769: 2, L0768: 2, L0649: 2, L0375: 2, L0776: 2, H0658: 2, L0750: 2, L0779: 2, L0755: 2, L0731: 2, L0757: 2, L0596: 2, L0588: 2, S0026: 2, H0170: 1, H0483: 1, H0661: 1, H0402: 1, H0459: 1, S0360: 1, H0639: 1, L0717: 1, H0392: 1, H0607: 1, H0333: 1, H0486: 1, H0318: 1.
HOVDU91	HOVDU91R	1695	3 - 233	3870		

HOVDV70	HOVDV70R	1696	60 - 293	3871	Ile-12 to Gln-17.	H0251: 1, H0184: 1, H0045: 1, H0014: 1, S0388: 1, S0051: 1, H0594: 1, H0188: 1, H0687: 1, L0052: 1, H0328: 1, H0428: 1, H0181: 1, H0032: 1, H0090: 1, H0087: 1, H0413: 1, H0561: 1, S0372: 1, H0647: 1, S0144: 1, S0002: 1, H0026: 1, L0761: 1, L0627: 1, L0648: 1, L0766: 1, L0774: 1, L0805: 1, L0656: 1, L0659: 1, L0636: 1, L0383: 1, L0666: 1, L0663: 1, L0665: 1, S0428: 1, H0689: 1, H0670: 1, H0539: 1, S0013: 1, S0174: 1, L0751: 1, L0777: 1, L0752: 1, H0445: 1, L0608: 1, L0595: 1 and H0136: 1.		
HOVDV70	HOVDV70R	1696	60 - 293	3871	Ile-12 to Gln-17.	L0752: 3, L0731: 3, L0747: 2, L0753: 2, H0265: 1, S0116: 1, S0420: 1, H0428: 1, L0769: 1, L0767: 1.		

								L0766: 1, L0775: 1, L0776: 1, H0555: 1, L0742: 1, L0748: 1, L0757: 1 and L0759: 1.		
HOVDW60	HOVDW60R	1697	64 - 264	3872	Tyr-22 to Ala-28.			H0428: 1 and S3014: 1.		
HOVDZ66	HOVDZ66R	1698	99 - 257	3873	Gly-40 to His-48.			H0428: 2		
HOVEA43	HOVEA43R	1699	247 - 396	3874						
HOVEB25	HOVEB25R	1700	169 - 363	3875	Ala-20 to Gln-25.					
HOVEE84	HOVEE84R	1701	410 - 589	3876	Ser-7 to Trp-13, Phe-19 to Ala-25.					
HOVEE92	HOVEE92R	1702	3 - 143	3877				S0474: 66, L0439: 16, H0547: 15, L0748: 15, L0731: 10, S0360: 9, L0770: 9, S0408: 8, S0358: 7, L0771: 7, L0775: 7, L0747: 6, L0592: 6, H0428: 5, S0438: 5, L0659: 5, L0664: 5, L0665: 5, L0752: 5, L0757: 5, H0506: 5, S0007: 4, H0549: 4, S0440: 4, L0769: 4, L0768: 4, L0774: 4, L0663: 4, H0519: 4, S0152: 4, L0750: 4, L0779: 4, L0755: 4, L0759: 4, L0591: 4, L0595: 4, S0444: 3, H0510: 3, H0615: 3, H0551: 3,		

	H0100: 3, L0598: 3, L0638: 3, L0766: 3, S0380: 3, L0594: 3, H0341: 2, S0420: 2, S0442: 2, H0722: 2, L0717: 2, H0550: 2, S0222: 2, H0587: 2, H0574: 2, H0632: 2, H0013: 2, H0575: 2, H0581: 2, H0544: 2, H0012: 2, H0687: 2, H0628: 2, S0036: 2, H0509: 2, L0637: 2, L0764: 2, L0773: 2, L0803: 2, L0375: 2, L0806: 2, L0783: 2, L0666: 2, H0520: 2, H0684: 2, H0659: 2, H0521: 2, L0745: 2, L0756: 2, S0436: 2, L0596: 2, L0593: 2, L0362: 2, S0194: 2, H0543: 2, H0624: 1, H0170: 1, H0171: 1, H0717: 1, H0657: 1, H0671: 1, H0663: 1, H0664: 1, H0459: 1, S0356: 1, S0410: 1, H0637: 1, S0476: 1, H0645: 1, S6026: 1,	
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HOVEF34	HOVEF34R	1703	288 - 497	3878							
HOVEF81	HOVEF81R	1704	1 - 393	3879	Gln-4 to Gln-10, Lys-35 to Ala-60, Pro-66 to Ser-79.			L0750: 11, L0740: 7, L0747: 5, H0341: 4, L0757: 4, H0641: 3, L0766: 3, L0748: 3, L0754: 3, L0752: 3, L0593: 3, H0171: 2, S0134: 2, S0442: 2, S0010: 2, H0428: 2, H0538: 2, L0770: 2, L0774: 2, L0776: 2, L0517: 2, L0438: 2, H0519: 2, H0684: 2, L0777: 2, L0755: 2, L0731: 2, L0758: 2, S0026: 2, H0170: 1, T0002: 1, S0114: 1, S0116: 1, H0663: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1,			

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HOVEG73	HOVEG73R	1705	3 - 290	3880	Ser-9 to Gly-17, Ser-20 to Pro-26, Arg-32 to His-41.					
HOVEJ15	HOVEJ15R	1706	160 - 468	3881		L0809: 8, L0794: 5, L0439: 5, L0758: 5, H0617: 4, L0438: 4, L0754: 4, L0731: 4,				

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HOVEL51	HOVEL51R	1707	60 - 209	3882	Ser-13 to Val-21, Thr-45 to Ser-50.				
HOVEN79	HOVEN79R	1708	146 - 265	3883					
HOVEN86	HOVEN86R	1709	1 - 168	3884					
HOVEP45	HOVEP45R	1710	1 - 102	3885					

HOVEW80	HOVEW80R	1711	2 - 244	3886				
HOVEY58	HOVEY58R	1712	175 - 405	3887	Lys-5 to Ser-18.	L0803: 7, L0748: 4, L0439: 4, L0804: 3, L0750: 3, L0756: 3, H0024: 2, L0438: 2, L0747: 2, L0779: 2, H0624: 1, H0171: 1, H0661: 1, S0354: 1, H0208: 1, S0300: 1, H0441: 1, H0331: 1, H0013: 1, S0214: 1, H0428: 1, H0040: 1, L0770: 1, L0776: 1, L0809: 1, L0665: 1, H0547: 1, H0658: 1, S0432: 1, L0749: 1, L0777: 1, L0780: 1, L0755: 1 and L0759: 1.		
HOVFD79	HOVFD79R	1713	3 - 152	3888	Val-2 to Ser-7.			
HOVJF86	HOVJF86RA	1714	20 - 130	3889				
HOVJH27	HOVJH27RA	1715	2 - 355	3890				
HOVJI53	HOVJI53R	1716	1 - 396	3891				
HOVJJ09	HOVJJ09R	1717	1 - 576	3892	Ser-5 to Gly-10, Glu-18 to Glu-32, Ala-39 to Lys-46, Ser-89 to Arg-96, Pro-141 to Ala-151, Ser-162 to Gln-169.			
HOVJR56	HOVJR56R	1718	1 - 186	3893	Ala-18 to Ser-24, Gly-55 to Thr-60.			

HOVJU75	HOVJU75R	1719	49 - 684	3894	Tyr-44 to Asp-49, Pro-132 to Leu-139, Cys-168 to His-174.			
HOVJW17	HOVJW17R	1720	74 - 301	3895	Ala-8 to Gln-14, Arg-40 to Glu-45.			
HOVJY68	HOVJY68R	1721	199 - 570	3896	Pro-47 to Lys-53, Leu-93 to Lys-102, Tyr-105 to Gln-110, Arg-115 to Lys-124.			
HOVKB02	HOVKB02R	1722	1 - 366	3897	Ala-1 to His-13, Leu-73 to Leu-79.	L0157: 2, H0620: 2, L0666: 2, S0001: 1, L0717: 1, H0549: 1, S0222: 1, H0581: 1, H0194: 1, H0015: 1, H0399: 1, H0271: 1, H0688: 1, H0428: 1, H0124: 1, L0637: 1, H0672: 1, L0439: 1, L0750: 1 and H0423: 1.		
HOVKE66	HOVKE66R	1723	2 - 487	3898	Ala-20 to Val-38, Cys-43 to Thr-60, Arg-91 to Lys-97.			
HOVKF20	HOVKF20R	1724	1 - 168	3899	Gln-15 to Leu-20, Pro-37 to Thr-44.			
HOVKG18	HOVKG18R	1725	2 - 406	3900	Cys-23 to His-29, Ser-74 to Glu-91.			
HPAMB11	HPAMB11R	1726	323 - 511	3901	Gln-8 to Tyr-14, Pro-20 to Thr-26.			
HPAMB60	HPAMB60R	1727	2 - 586	3902				

HPAMB62	HPAMB62R	1728	2 - 196	3903	Leu-12 to Ser-21.	L0439: 11, L0747: 8, H0624: 6, L0759: 6, L0779: 5, L0758: 5, H0013: 4, L0803: 4, L0754: 4, H0171: 3, L0666: 3, L0756: 3, L0752: 3, L0755: 3, L0591: 3, L0608: 3, H0170: 2, H0650: 2, H0341: 2, H0663: 2, S0360: 2, S0003: 2, L0769: 2, L0796: 2, L0766: 2, L0649: 2, L0806: 2, H0696: 2, S0028: 2, L0740: 2, L0750: 2, L0777: 2, S0436: 2, L0361: 2, S0298: 1, S0418: 1, S0444: 1, S0408: 1, H0733: 1, H0734: 1, S0300: 1, S0220: 1, H0497: 1, H0333: 1, H0270: 1, H0575: 1, H0036: 1, H0590: 1, H0596: 1, H0050: 1, L0471: 1, H0015: 1, S0388: 1, S6028: 1, H0266: 1, H0328: 1, H0622: 1, H0708: 1, H0591: 1, H0040: 1,		
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HPAMB93	HPAMB93R	1729	2 - 439	3904										
HPAMC04	HPAMC04R	1730	134 - 334	3905										
HPAMC19	HPAMC19R	1731	8 - 631	3906										
HPAMC27	HPAMC27R	1732	1 - 669	3907										
HPAMC90	HPAMC90R	1733	18 - 464	3908	Arg-1 to Gly-6,	S0360: 15, S0358: 14,								

Pro-13 to Thr-20.	L0794: 12, L0747: 12, H0696: 11, H0341: 10, H0670: 10, H0657: 9, S0422: 9, H0659: 8, S0114: 7, H0656: 7, S0408: 7, S0007: 7, H0486: 7, H0543: 7, S0444: 6, L0471: 6, S0126: 6, H0658: 6, S0378: 6, S0406: 6, S0027: 6, H0038: 5, H0040: 5, L0770: 5, L0517: 5, H0648: 5, S0404: 5, L0752: 5, H0423: 5, H0624: 4, H0171: 4, H0716: 4, S0116: 4, S0410: 4, H0545: 4, H0373: 4, H0674: 4, L0520: 4, L0763: 4, L0662: 4, L0775: 4, L0493: 4, L0518: 4, L0809: 4, L0519: 4, S012: 4, H0445: 4, L0361: 4, H0685: 3, T0049: 3, S0420: 3, H0580: 3, S0132: 3, T0109: 3, H0013: 3, S0346: 3, H0597: 3, H0615: 3, H0616: 3, H0087: 3
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HPAMD56	HPAMD56R	1734	1 - 504	3909	Glu-10 to Phe-17, Phe-25 to Leu-32, Thr-38 to Tyr-44, Gln-81 to Thr-88.						
HPAME35	HPAME35R	1735	2 - 277	3910	Gly-60 to Phe-66.			L0731: 9, L0653: 8, L0757: 6, L0809: 5, L0747: 5, S0418: 4, S0360: 4, H0188: 4, S0404: 4, L0779: 4, S0040: 3, H0370: 3, H0040: 3, L0774: 3, S0434: 3, S0442: 2, H0575: 2, H0252: 2, S0440: 2, L0374: 2, L0773: 2, H0435: 2, S0406: 2, L0748: 2, L0740: 2, L0754: 2, L0746: 2, L0758: 2, L0581: 2, H0624: 1, H0686: 1, S0180: 1, H0661: 1, S0358: 1, S0476: 1, L0717: 1, H0549: 1, H0455: 1, H0586: 1, H0632: 1, S0280: 1, H0599: 1, H0118: 1, H0235: 1,			

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HPAMF38	HPAMF38R	1738	24 - 449	3913	Ser-35 to Gly-41, Ser-71 to Met-80.	L0752: 12, L0748: 8, L0766: 5, L0599: 5, H0617: 4, L0764: 4, H0081: 3, L0774: 3, L0806: 3, L0776: 3, L0749: 3, L0750: 3, S0444: 2, S0408: 2, H0392: 2, H0150: 2, H0494: 2, H0521: 2, L0756: 2, L0758: 2, H0506: 2, H0352: 2, H0265: 1, H0483: 1, S0358: 1, L0021: 1, H0108: 1, H0024: 1, H0083: 1, S0366: 1, H0090: 1, H0038: 1, H0040: 1, T0041: 1, L0763: 1, L0770: 1, L3905: 1, L0772: 1, L0644: 1, L0645: 1, L0771: 1, L0775: 1, L0651: 1, L0378: 1, L0659: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, H0682: 1, H0670: 1, S0188: 1, L0740: 1, L0747: 1, L0777: 1, L0759: 1, H0445: 1, L0596: 1, L0604: 1 and H0542: 1.		
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HPAMG44	HPAMG44R	1739	385 - 666	3914					
HPAMG54	HPAMG54R	1740	3 - 410	3915					
HPAMI11	HPAMI11R	1741	2 - 670	3916	Lys-13 to Tyr-30, Arg-52 to Lys-57, Ser-72 to Thr-79, Thr-110 to Trp-115, Leu-124 to Ala-130, Leu-132 to Glu-138, Asn-141 to Lys-162.				
HPAMJ71	HPAMJ71R	1742	2 - 472	3917					
HPAMQ47	HPAMQ47R	1743	100 - 246	3918		L0777: 5, L0766: 3, L0803: 3, L0439: 3, S0360: 2, L0598: 2, L0666: 2, L0748: 2, T0049: 1, S0134: 1, S0116: 1, L0717: 1, H0586: 1, H0486: 1, H0575: 1, H0510: 1, H0553: 1, H0560: 1, S0422: 1, L0763: 1, L0769: 1, L0521: 1, L0767: 1, L0768: 1, L0775: 1, L0663: 1, S0374: 1, L0438: 1, H0520: 1, H0682: 1, S0328: 1, L0740: 1, L0757: 1, S0192: 1 and H0543: 1.			
HPAMQ76	HPAMQ76R	1744	2 - 190	3919	Pro-18 to Lys-24.				
HPAMT47	HPAMT47R	1745	327 - 509	3920	Thr-27 to Lys-37.	S0358: 8, L0777: 6,			

L0744: 4, H0656: 3, L0766: 3, H0659: 3, H0436: 3, L0754: 3, L0747: 3, L0731: 3, S0026: 3, H0254: 2, S0007: 2, H0587: 2, L0586: 2, H0545: 2, H0150: 2, L0794: 2, H0144: 2, L0750: 2, L0608: 2, S0412: 2, H0170: 1, H0638: 1, S0420: 1, S0442: 1, S0444: 1, H0329: 1, S0045: 1, H0645: 1, H0586: 1, H0333: 1, H0574: 1, H0013: 1, H0250: 1, L0105: 1, H0581: 1, H0196: 1, H0263: 1, H0546: 1, H0457: 1, L0157: 1, L0471: 1, S0051: 1, S0336: 1, S0214: 1, H0428: 1, H0032: 1, H0166: 1, H0673: 1, H0561: 1, S0440: 1, L0763: 1, L0764: 1, L0803: 1, L0804: 1, L0776: 1, T0068: 1, H0547: 1, H0519: 1, H0593: 1, H0690: 1,							
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							H0682: 1, H0435: 1, H0670: 1, H0666: 1, H0672: 1, S0328: 1, H0696: 1, L0751: 1, L0749: 1, L0756: 1, L0780: 1, L0757: 1, L0759: 1, H0543: 1, H0423: 1 and H0422: 1.			
HPAMU33	HPAMU33R	1746	2 - 520	3921	Lys-59 to Tyr-70, Pro-109 to Lys-115.					
HPAMV82	HPAMV82R	1747	207 - 422	3922	Gln-34 to Asn-39.					
HPAMW44	HPAMW44R	1748	1 - 357	3923	Gly-1 to Arg-13, Glu-37 to Lys-42, Gly-45 to Gln-64.					
							L0742: 11, L0747: 10, L0769: 9, L0766: 9, L0754: 8, L0751: 7, L0777: 7, L0752: 7, L0806: 6, L0776: 6, L0743: 6, L0717: 4, L0665: 4, L0750: 4, S0360: 3, H0580: 3, H0318: 3, H0052: 3, L0471: 3, H0040: 3, T0042: 3, H0547: 3, H0682: 3, L0745: 3, L0779: 3, L0759: 3, L0593: 3, L0601: 3, H0624: 2, H0556: 2, S0045: 2, H0559: 2, H0013: 2, H0530: 2, H0046: 2, H0620: 2, S0051: 2, T0010: 2,			

H0083: 2, S0002: 2, L0770: 2, L0659: 2, H0520: 2, S0292: 2, L0744: 2, L0740: 2, L0758: 2, L0596: 2, T0049: 1, L0393: 1, S0001: 1, H0663: 1, H0306: 1, H0638: 1, S0420: 1, S0358: 1, S0132: 1, H0619: 1, H0645: 1, H0550: 1, S0222: 1, H0392: 1, H0438: 1, H0257: 1, T0039: 1, T0040: 1, S0280: 1, H0156: 1, H0575: 1, H0618: 1, H0253: 1, S0010: 1, H0581: 1, H0194: 1, H0204: 1, H0150: 1, H0123: 1, H0292: 1, L0194: 1, T0023: 1, H0031: 1, H0553: 1, H0617: 1, H0673: 1, H0169: 1, H0674: 1, H0090: 1, H0269: 1, H0623: 1, H0494: 1, L0475: 1, S0150: 1, H0538: 1, L0763: 1, L0638: 1, L0761: 1, L0646: 1, L0645: 1,
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								L0771: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0657: 1, L0658: 1, L0545: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0593: 1, S0126: 1, H0435: 1, S0330: 1, H0521: 1, H0522: 1, S0044: 1, S0406: 1, S0027: 1, L0741: 1, L0439: 1, L0755: 1, L0757: 1, S0436: 1, L0485: 1, L0603: 1, S0011: 1, H0668: 1, H0542: 1 and H0422: 1.			
HPAMY45	HPAMY45R	1749	291 - 569	3924	Pro-1 to Cys-6, Ala-13 to Ala-19, His-22 to Lys-28, Ser-44 to Cys-53, Pro-56 to Gly-67.						
HPAMZ14	HPAMZ14R	1750	2 - 628	3925	Trp-19 to Ser-27, Pro-185 to Ser-195.						
HPAMZ15	HPAMZ15R	1751	3 - 149	3926				L0493: 91, L0515: 29, L0509: 25, L0514: 21, L0803: 12, L0508: 8, L0604: 7, H0599: 6, L0809: 5, H0445: 5, L0800: 4, L0511: 4, L0362: 4, H0543: 4.			

				H0657: 3, L0598: 3, L0498: 3, L0805: 3, L0780: 3, L0755: 3, L0731: 3, L0759: 3, L0591: 3, S0026: 3, H0170: 2, H0373: 2, H0038: 2, H0623: 2, H0494: 2, H0560: 2, H0561: 2, L0503: 2, L0651: 2, L0653: 2, L0776: 2, L0792: 2, H0520: 2, H0555: 2, S0206: 2, L0748: 2, L0749: 2, L0756: 2, L0779: 2, L0590: 2, L0608: 2, H0668: 2, H0422: 2, S0040: 1, S0114: 1, S0134: 1, S0218: 1, H0656: 1, S0212: 1, S0360: 1, H0489: 1, H0580: 1, S0045: 1, S0476: 1, H0431: 1, H0643: 1, L0623: 1, H0486: 1, H0069: 1, H0002: 1, H0097: 1, H0274: 1, S0474: 1, H0421: 1, L0040: 1, H0024: 1, S0003: 1, H0622: 1, H0553: 1, H0032: 1.
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HPAMZ81	HPAMZ81R	1752	3 - 677	3927	Ser-1 to Lys-25, Glu-71 to Ser-77, Glu-93 to Thr-99.	<p>H0388: 1, H0400: 1, S0036: 1, H0090: 1, H0551: 1, H0264: 1, H0412: 1, S0386: 1, T0042: 1, H0625: 1, S0210: 1, H0529: 1, L0625: 1, L0505: 1, L0506: 1, L0500: 1, L0761: 1, L0646: 1, L0662: 1, L0794: 1, L0375: 1, L0784: 1, L0655: 1, L0510: 1, L0634: 1, L0517: 1, L0519: 1, L0793: 1, L0666: 1, L0664: 1, S0374: 1, H0547: 1, H0519: 1, H0682: 1, H0658: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0696: 1, S0146: 1, S0390: 1, L0747: 1, L0753: 1, S0260: 1, H0444: 1, S0434: 1, L0584: 1, S0242: 1, S0194: 1, S0276: 1, H0542: 1 and S0424: 1.</p>		
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HPANA05	HPANA05R	1753	2 - 514	3928	Arg-123 to His-134, Pro-141 to His-146, His-198 to Ala-207. Thr-23 to Gln-35, His-37 to Val-51, Arg-70 to Arg-81, Gln-108 to Asp-114, Met-130 to Ser-140.			
HPANA07	HPANA07R	1754	1 - 720	3929	Ala-1 to Thr-6, Lys-19 to Leu-24, Ile-77 to Ala-93, Val-105 to Leu-110, Thr-139 to Thr-153, Thr-165 to Lys-187, Ala-198 to Leu-203, Ser-211 to Lys-226. H0497: 5, S0002: 5, H0529: 5, H0556: 4, H0046: 3, L0455: 3, T0042: 3, H0520: 3, H0543: 3, H0265: 2, H0657: 2, H0656: 2, H0458: 2, S0358: 2, H0486: 2, H0050: 2, H0124: 2, H0591: 2, H0494: 2, L0662: 2, H0522: 2, L0740: 2, L0751: 2, L0747: 2, L0588: 2, L0605: 2, H0667: 2, H0686: 1, H0650: 1, H0664: 1, H0125: 1, S0418: 1, H0580: 1, S6014: 1, H0257: 1, H0559: 1, H0635: 1, H0427: 1, H0575: 1, H0052: 1, N0006: 1, L0471: 1, H0373: 1, H0083: 1.			

HPANA28	HPANA28R	1755	2 - 376	3930	Gln-22 to Thr-31, Leu-91 to Leu-104.	H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0031: 1, H0383: 1, H0212: 1, S0366: 1, S0036: 1, H0040: 1, H0634: 1, H0561: 1, S0210: 1, L0770: 1, L0761: 1, L0772: 1, L0641: 1, L0644: 1, L0764: 1, L0776: 1, L0655: 1, L0807: 1, L0657: 1, L0665: 1, S0148: 1, S0126: 1, H0682: 1, H0694: 1, S0037: 1, L0744: 1, L0750: 1, L0755: 1, L0731: 1, S0436: 1, L0596: 1, L0485: 1, L0601: 1, S0276: 1, H0423: 1, S0424: 1 and S0446: 1.		
HPANA87	HPANA87R	1756	494 - 730	3931	Gln-13 to Gly-28.			
HPANB32	HPANB32R	1757	2 - 247	3932				
HPANC01	HPANC01R	1758	255 - 446	3933	Leu-1 to Ser-8.			
HPANE49	HPANE49R	1759	2 - 412	3934				
HPANE52	HPANE52R	1760	1 - 666	3935	Lys-64 to Tyr-75, Pro-114 to Lys-120, Leu-160 to Lys-169.			

HPANE87	HPANE87R	1761	119 - 652	3936	Tyr-172 to Gln-177, Pro-182 to Val-189.	L0752: 10, L0593: 9, L0775: 8, L0588: 8, L0666: 7, L0665: 7, L0592: 7, L0595: 7, L0363: 6, L0774: 6, L0747: 6, L0362: 6, H0422: 6, L0455: 5, L0659: 5, H0539: 5, H0170: 4, S0360: 4, L0657: 4, H0547: 4, L0749: 4, L0779: 4, L0757: 4, H0657: 3, H0412: 3, L0520: 3, L0761: 3, L0646: 3, L0375: 3, L0651: 3, L0783: 3, H0144: 3, H0520: 3, H0659: 3, H0670: 3, H0648: 3, L0740: 3, L0750: 3, L0756: 3, L0731: 3, L0759: 3, L0591: 3, L0608: 3, H0662: 2, S0376: 2, H0637: 2, H0619: 2, L0717: 2, S0280: 2, H0318: 2, T0010: 2, H0040: 2, H0413: 2, L0351: 2, H0646: 2, L0763: 2,		
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L0521: 2, L0784: 2, L0655: 2, L0382: 2, L0809: 2, L0664: 2, H0682: 2, H0658: 2, H0672: 2, L0439: 2, L0755: 2, L0589: 2, L0604: 2, S0424: 2, H0624: 1, H0686: 1, H0685: 1, S0040: 1, H0716: 1, H0341: 1, H0580: 1, S0468: 1, S6026: 1, H0351: 1, H0392: 1, L0623: 1, T0060: 1, H0069: 1, H0427: 1, T0048: 1, T0071: 1, S0049: 1, H0052: 1, L0471: 1, S0388: 1, S0051: 1, S0003: 1, T0006: 1, L0055: 1, H0169: 1, S0036: 1, T0067: 1, H0059: 1, H0494: 1, H0560: 1, S0372: 1, S0002: 1, L0371: 1, L0637: 1, L0627: 1, L0772: 1, L0764: 1, L0662: 1, L0767: 1, L0768: 1, L0649: 1, L4500: 1, L0650: 1, L0378: 1, L0806: 1,
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							L0633: 1, L0628: 1, L0517: 1, L0518: 1, L0789: 1, L0663: 1, L0352: 1, H0684: 1, H0435: 1, H0666: 1, S0330: 1, S0378: 1, S0380: 1, S0152: 1, H0134: 1, S0406: 1, H0436: 1, L0612: 1, L0742: 1, L0748: 1, L0751: 1, S0031: 1, L0596: 1, L0485: 1, L0599: 1, L0601: 1, S0026: 1, H0542: 1, H0543: 1 and H0423: 1.			
HPANJ67	HPANJ67R	1762	3 - 119	3937	Ser-5 to Ser-14, Gln-21 to Gln-28.					
HPANK61	HPANK61R	1763	170 - 310	3938			H0328: 2, H0674: 2, L0774: 2, L0805: 2, H0682: 2, L0731: 2, H0306: 1, L0770: 1, L0764: 1, L0809: 1, H0520: 1, H0660: 1, H0521: 1, L0744: 1, L0751: 1, L0750: 1, L0752: 1, S0026: 1, H0352: 1 and L0360: 1.			
HPCOB29	HPCOB29R	1764	2 - 139	3939						
HPCOB69	HPCOB69R	1765	47 - 118	3940						
HPCOJ59	HPCOJ59R	1766	3 - 308	3941	Pro-1 to Val-6,		H0659: 2			

HPCOK72	HPCOK72R	1767	197 - 346	3942	Asp-51 to Phe-56, Asp-83 to Gly-88, Ser-94 to Glu-102.	
HPCOK73	HPCOK73R	1768	426 - 557	3943	Ile-12 to Cys-18.	
					H0591: 62, S0242: 15, L0754: 11, S0003: 9, S0196: 8, L0766: 7, H0144: 6, L0740: 6, L0664: 5, S0420: 4, H0393: 4, L0803: 4, H0428: 3, H0509: 3, H0641: 3, L0777: 3, L0595: 3, L0362: 3, S0360: 2, H0013: 2, L0471: 2, L0163: 2, H0355: 2, H0553: 2, S0036: 2, L0662: 2, L0804: 2, S0374: 2, L0438: 2, S0126: 2, L0748: 2, L0755: 2, L0485: 2, S0412: 2, H0341: 1, S0376: 1, H0580: 1, S0045: 1, H0331: 1, T0039: 1, T0060: 1, H0427: 1, L0021: 1, H0590: 1, H0318: 1, H0194: 1, H0563: 1, H0572: 1, H0051: 1, H0083: 1, S6028: 1, S0312: 1,	

							S0214: 1, H0031: 1, H0628: 1, H0598: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0412: 1, L0370: 1, H0494: 1, H0625: 1, S0440: 1, S0344: 1, H0529: 1, L0770: 1, L0646: 1, L0645: 1, L0648: 1, L0521: 1, L0775: 1, L0525: 1, L0805: 1, L0657: 1, L0782: 1, L0663: 1, L0665: 1, H0547: 1, H0519: 1, H0711: 1, H0659: 1, H0660: 1, H0518: 1, S0152: 1, H0521: 1, L0745: 1, L0759: 1, S0434: 1, L0590: 1, L0592: 1, L0594: 1, H0667: 1, H0423: 1, H0422: 1, S0424: 1 and H0506: 1.			
HPCOK93	HPCOK93R	1769	1 - 108	3944						
HPCOL81	HPCOL81R	1770	33 - 179	3945	Lys-42 to Val-49.					
HPCOO90	HPCOO90R	1771	3 - 335	3946	Ala-3 to Gly-9.					
HPCOO95	HPCOO95R	1772	343 - 2	3947	Tyr-12 to Ile-17, Pro-28 to Asn-33, Arg-45 to Asp-53.					
HPCOP23	HPCOP23R	1773	2 - 427	3948						

HPCOQ33	HPCOQ33R	1774	417 - 548	3949				L0803: 8, L0777: 8, L0794: 7, L0766: 7, H0144: 5, L0438: 5, H0547: 5, L0439: 5, H0013: 4, L0779: 4, H0441: 3, S0440: 3, L0762: 3, L0771: 3, L0662: 3, L0666: 3, L0665: 3, L0748: 3, L0752: 3, H0656: 2, H0341: 2, S0418: 2, S0356: 2, H0575: 2, H0328: 2, H0615: 2, H0040: 2, H0477: 2, T0041: 2, L0598: 2, L0763: 2, L0659: 2, L0663: 2, L0664: 2, H0659: 2, L0602: 2, S0406: 2, L0755: 2, L0759: 2, L0592: 2, H0624: 1, H0170: 1, H0171: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, L0415: 1, S0116: 1, H0661: 1, H0664: 1, S0420: 1, L0005: 1, S0444: 1, S0360: 1, S0408: 1, S0046: 1, S0476: 1,
HPCOQ85	HPCOQ85R	1775	2 - 259	3950				

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HPCOR52	HPCOR52R	1778	43 - 432	3953			S0414: 16, S0360: 6, S0358: 5, L0766: 5, H0574: 4, H0521: 4, L0754: 4, L0756: 4, S0422: 3, L0770: 3, H0547: 3, H0672: 3, L0596: 3, H0251: 2, H0615: 2, H0090: 2, L0646: 2, L0662: 2, L0776: 2, L0659: 2, L0752: 2, L0758: 2, S0436: 2, L0595: 2, H0624: 1, L0002: 1, H0583: 1, H0650: 1, S0116: 1, S0298: 1, S0282: 1, S0418: 1, H0722: 1, H0734: 1, S0045: 1, S0300: 1, L0717: 1, S0222: 1, H0013: 1, L0021: 1, H0706: 1, L0105: 1, H0263: 1, L0041: 1, H0057: 1, S0050: 1, L0163: 1, H0051: 1, S0388: 1, S0051: 1, H0271: 1, S0003: 1, H0644: 1, H0032: 1, H0673: 1, H0379: 1, H0272: 1, H0059: 1,
HPCOU70	HPCOU70R	1779	137 - 355	3954			

								H0130: 1, H0647: 1, S0210: 1, S0426: 1, H0529: 1, L0637: 1, L0372: 1, L0649: 1, L0775: 1, L0651: 1, L0806: 1, L0657: 1, L0518: 1, L0788: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0519: 1, H0689: 1, H0690: 1, H0659: 1, S0380: 1, H0696: 1, S0406: 1, H0436: 1, H0478: 1, H0727: 1, L0439: 1, L0731: 1, H0595: 1, S0434: 1, L0608: 1, H0667: 1, S0196: 1, H0422: 1, S0424: 1 and H0506: 1.			
HPCOV35	HPCOV35R	1780	151 - 657	3955	Lys-4 to Lys-16.						
HPCOV41	HPCOV41R	1781	3 - 356	3956							
HPCOX43	HPCOX43R	1782	158 - 418	3957	Asn-9 to Trp-14, Pro-20 to Arg-46.						
HPCPB38	HPCPB38R	1783	294 - 473	3958		L0439: 3, L0438: 1, H0659: 1, H0648: 1 and S0330: 1.					
HPCPD26	HPCPD26R	1784	3 - 314	3959							
HPCPE33	HPCPE33R	1785	308 - 427	3960		H0551: 11, L0766: 10, L0794: 8 S0026: 7					

					H0556: 6, L0770: 6, H0659: 6, H0521: 6, L0740: 5, H0661: 4, H0638: 4, H0497: 4, H0560: 4, H0170: 3, H0341: 3, S0360: 3, H0318: 3, H0561: 3, L0731: 3, L0757: 3, H0265: 2, S0418: 2, S0420: 2, S0356: 2, S0132: 2, S0278: 2, T0115: 2, T0110: 2, H0083: 2, S0214: 2, H0622: 2, H0617: 2, S0364: 2, H0090: 2, T0042: 2, H0366: 2, H0646: 2, S0002: 2, H0529: 2, L0369: 2, L0769: 2, L0646: 2, L0776: 2, L0655: 2, L0809: 2, L0789: 2, L0666: 2, L0664: 2, L0777: 2, L0758: 2, L0593: 2, H0668: 2, H0543: 2, H0423: 2, T0002: 1, S0342: 1, H0716: 1, H0657: 1, S0212: 1, H0402: 1, L0005: 1, S0376: 1, H0580: 1, H0339: 1,
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HPCPH50	HPCPH50R	1786	93 - 209	3961			S0194: 1, H0542: 1, H0422: 1 and H0506: 1, H0659: 2, L0752: 2, L0595: 2 and H0686: 1.			
HPCPH51	HPCPH51R	1787	203 - 412	3962	Pro-10 to Val-15, Ser-25 to Asn-32.					
HPCPH52	HPCPH52R	1788	3 - 101	3963						
HPCPH68	HPCPH68R	1789	191 - 322	3964						
HPCPU27	HPCPU27R	1790	3 - 116	3965	Pro-29 to Gln-38.					
HPCPW09	HPCPW09R	1791	201 - 407	3966	Gln-47 to Lys-55.		L0766: 10, L0754: 9, S0358: 6, H0616: 6, H0551: 5, L0439: 5, H0657: 4, H0497: 4, S0003: 4, H0038: 4, S0422: 4, S0374: 4, H0659: 4, S0045: 3, H0644: 3, H0412: 3, H0529: 3, L0662: 3, L0805: 3, L0657: 3, L0663: 3, H0521: 3, H0624: 2, H0171: 2, S0040: 2, H0638: 2, S0418: 2, L0005: 2, S0376: 2, H0546: 2, H0046: 2, H0553: 2, H0169: 2, H0591: 2, H0413: 2, H0623: 2, L0646: 2, L0771: 2, L0803: 2, L0526: 2, L0666: 2, L0664: 2,			

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HPCPX80	HPCPX80R	1792	209 - 298	3967	His-25 to Lys-30.		H0659: 2, L0438: 1 and L0439: 1.			
HPCQO79	HPCQO79R	1793	74 - 256	3968	Thr-19 to Leu-24.		H0521: 13, L0659: 10, L0779: 10, H0551: 9, S0360: 6, S0214: 6, L0770: 6, L0649: 6, L0666: 6, L0731: 6, H0170: 5, H0638: 5, S0376: 5, H0580: 5, H0575: 5, H0553: 5, S0210: 5, L0662: 5, L0776: 5, L0657: 5, H0547: 5, L0439: 5, H0656: 4, S0358: 4, H0676: 4, H0574: 4, H0486: 4, H0318: 4, S0003: 4, L0655: 4,			
HPCQO91	HPCQO91R	1794	270 - 479	3969						

L0663: 4, L0665: 4, H0659: 4, L0756: 4, L0757: 4, H0445: 4, H0542: 4, S0212: 3, H0009: 3, L0157: 3, ... L0471: 3, H0024: 3, H0494: 3, L0763: 3, L0637: 3, L0646: 3, L0764: 3, S0052: 3, H0672: 3, L0748: 3, L0750: 3, L0752: 3, L0755: 3, L0608: 3, S0026: 3, H0543: 3, H0171: 2, H0556: 2, H0657: 2, L0785: 2, S0420: 2, L0005: 2, H0156: 2, S0474: 2, H0581: 2, H0251: 2, H0545: 2, H0373: 2, H0477: 2, H0412: 2, H0413: 2, T0041: 2, S0466: 2, H0641: 2, S0144: 2, L0372: 2, L0774: 2, L0805: 2, L0783: 2, L0664: 2, S0374: 2, L0438: 2, H0658: 2, H0670: 2, H0660: 2, H0539: 2, H0522: 2, H0436: 2, L0742: 2, L0777: 2,	
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L0758: 2, L0759: 2, L0596: 2, L0599: 2, L0362: 2, S0192: 2, H0265: 1, S0040: 1, H0295: 1, H0583: 1, H0650: 1, S0116: 1, H0663: 1, H0662: 1, H0619: 1, S0278: 1, H0261: 1, S0222: 1, H0431: 1, H0592: 1, H0586: 1, H0485: 1, H0013: 1, H0069: 1, H0427: 1, H0098: 1, H0042: 1, H0004: 1, H0274: 1, L0105: 1, H0505: 1, H0052: 1, H0327: 1, H0544: 1, H0546: 1, H0046: 1, H0150: 1, H0015: 1, T0010: 1, H0510: 1, H0375: 1, H0188: 1, H0252: 1, H0328: 1, H0039: 1, T0006: 1, H0031: 1, L0055: 1, H0032: 1, H0169: 1, H0124: 1, H0598: 1, H0090: 1, H0040: 1, H0059: 1, L0564: 1, H0560: 1, H0625: 1, H0561: 1, H0647: 1,						
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HPCQQ66	HPCQQ66R	1795	113 - 271	3970										
HPCQT27	HPCQT27R	1796	119 - 265	3971										
HPCQT88	HPCQT88R	1797	1 - 345	3972										
HPCQW64	HPCQW64R	1798	2 - 229	3973	Pro-3 to Cys-9, Asn-28 to Phe-37.									
HPCQW77	HPCQW77R	1799	259 - 408	3974	L0758: 6, L0779: 5, L0766: 4, L0731: 4,									

HPCOX47	HPCOX47R	1800	174 - 326	3975	Lys-1 to Val-6.	S0360: 2, L0769: 2, L0649: 2, H0648: 2, L0744: 2, L0740: 2, L0747: 2, L0777: 2, L0755: 2, L0757: 2, L0599: 2, H0171: 1, T0049: 1, H0657: 1, H0255: 1, H0638: 1, S0408: 1, H0619: 1, H0037: 1, H0052: 1, L0471: 1, H0014: 1, H0316: 1, S0438: 1, L0520: 1, L0763: 1, L0770: 1, L0637: 1, L0761: 1, L0373: 1, L0764: 1, L0774: 1, L0775: 1, L0375: 1, L0776: 1, L0655: 1, L0527: 1, L0542: 1, L0382: 1, L0519: 1, H0144: 1, H0682: 1, H0659: 1, H0660: 1, H0696: 1, H0555: 1, S3012: 1, L0439: 1, L0751: 1, L0754: 1, L0745: 1, L0749: 1, L0752: 1, L0759: 1, H0542: 1, S0458: 1 and S0384: 1.
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HPCRN90	HPCRN90R	1801	2 - 109	3976				
HPCTD21	HPCTD21R	1802	228 - 560	3977	Ser-8 to Lys-21, Gln-47 to Glu-52, Arg-72 to Arg-87.			
HPCTD23	HPCTD23R	1803	350 - 760	3978	Met-4 to Lys-18, Gln-44 to Glu-49, Arg-69 to Arg-84.			
HPCTD25	HPCTD25R	1804	269 - 598	3979	Asn-1 to Lys-20, Gln-46 to Glu-51, Arg-71 to Arg-86.			
HPCTD61	HPCTD61R	1805	354 - 713	3980	Asn-1 to Lys-21, Gln-47 to Glu-52, Arg-72 to Arg-87.			
HPCTF29	HPCTF29R	1806	2 - 595	3981				
HPCTF83	HPCTF83R	1807	1 - 177	3982		L0655: 22, H0648: 8, H0638: 4, H0318: 4, L0776: 4, L0659: 4, L0751: 4, L0747: 4, L0599: 4, S0358: 3, L0761: 3, L0775: 3, L0760: 2, H0255: 2, H0663: 2, S0360: 2, H0486: 2, L0142: 2, H0087: 2, L0662: 2, L0378: 2, L0653: 2, L0783: 2, L0666: 2, L0664: 2, L0665: 2, L0743: 2, L0756: 2, L0777: 2, L0362: 2, L0600: 2, H0650: 1,		

H0657: 1, H0692: 1, H0381: 1, H0306: 1, H0402: 1, H0305: 1, S0376: 1, S0300: 1, H0441: 1, L0622: 1, L0623: 1, L0586: 1, H0635: 1, L0022: 1, H0042: 1, H0575: 1, H0581: 1, H0052: 1, H0597: 1, H0231: 1, H0109: 1, H0029: 1, H0039: 1, T0006: 1, H0031: 1, H0166: 1, H0673: 1, H0674: 1, H0163: 1, H0063: 1, H0413: 1, H0359: 1, H0396: 1, H0647: 1, H0646: 1, S0002: 1, H0529: 1, L0762: 1, L0769: 1, L0667: 1, L0772: 1, L0372: 1, L0771: 1, L0767: 1, L0768: 1, L0387: 1, L0766: 1, L0774: 1, L0784: 1, L0606: 1, L0607: 1, L0629: 1, L0657: 1, L0518: 1, L0782: 1, L0809: 1, L0787: 1, L0789: 1, L0790: 1, L0663: 1,					
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HPCTI39	HPCTI39R	1808	1 - 114	3983						
HPCTI86	HPCTI86R	1809	1 - 306	3984	Lys-37 to Arg-42, Ser-74 to Thr-81.					
HPCTN62	HPCTN62R	1810	341 - 451	3985	Arg-6 to Asp-15.					
HPCTO69	HPCTO69R	1811	23 - 538	3986						
HPCTP60	HPCTP60R	1812	191 - 343	3987			H0052: 3, H0624: 2, H0014: 2, H0375: 2, L0598: 2, L0662: 2, L0803: 2, L0792: 2, L0666: 2, L0664: 2, H0659: 2, L0742: 2, L0743: 2, L0754: 2, H0423: 2, H0171: 1, H0686: 1, S0360: 1, H0486: 1, H0194: 1, L0041: 1, L0471: 1, H0687: 1, H0040: 1, H0264: 1, S0440: 1, S0422: 1, L0761: 1, L0646: 1, L0804: 1,			

							L0352: 1, H0670: 1, L0744: 1, L0740: 1, L0780: 1, L0759: 1 and H0506: 1.			
HPCTR60	HPCTR60R	1813	307 - 495	3988			L0803: 2, H0413: 1, L0650: 1, L0666: 1, H0689: 1, H0659: 1, H0658: 1, L0758: 1, L0759: 1 and S0242: 1.			
HPCTT47	HPCTT47R	1814	3 - 128	3989		Gly-4 to Lys-9.				
HPCTV40	HPCTV40R	1815	3 - 377	3990						
HPCTV53	HPCTV53R	1816	2 - 274	3991		Pro-7 to Ala-13.				
HPCTV92	HPCTV92R	1817	2 - 205	3992						
HPCTX22	HPCTX22R	1818	1 - 153	3993		Asn-27 to Lys-36.	L0439: 11, L0740: 10, L0752: 10, L0659: 8, L0748: 7, L0005: 6, S0358: 6, L0471: 6, S0214: 6, L0803: 6, L0517: 6, L0666: 6, L0759: 6, L0664: 5, L0665: 5, S0126: 5, H0574: 4, H0156: 4, L0646: 4, L0771: 4, L0766: 4, S0374: 4, H0659: 4, L0754: 4, L0749: 4, L0731: 4, L0362: 4, H0170: 3, H0341: 3, H0632: 3, S0003: 3, H0413: 3, H0529: 3, L0369: 3,			

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HPCTY38	HPCTY38R	1819	381 - 578	3994					L0666: 19, L0752: 14, S0358: 12, L0770: 10, L0439: 10, L0754: 10, L0659: 8, H0574: 7, L0663: 7, L0664: 7, H0659: 7, L0758: 7, L0759: 7, S0408: 6, H0519: 6, L0740: 6, L0750: 6, L0731: 6,				

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HPDOA92	HPDOA92R	1820	57 - 209	3995		Asp-1 to Leu-6.				
HPDOF32	HPDOF32R	1821	1 - 99	3996						
HPDOF81	HPDOF81R	1822	3 - 287	3997		Gln-20 to Leu-25.				
HPDOP05	HPDOP05R	1823	2 - 412	3998		Asp-11 to Val-19, Cys-36 to Asp-58, Lys-102 to Lys-111, Ile-115 to Ala-125, Val-127 to Gln-132.	L0747: 12, L0750: 12, H0052: 9, H0547: 8, H0659: 8, L0439: 8, L0752: 8, S0360: 7, S0408: 7, S0222: 6, S0010: 6, H0494: 6, H0144: 6, H0657: 5, S0358: 5, H0393: 5, H0373: 5, H0551: 5, L0775: 5, L0666: 5, L0758: 5, H0542: 5, H0486: 4, H0013: 4, H0545: 4, H0046: 4, L0471: 4, H0687: 4,			

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HPDOP20	HPDOP20R	1824	3 - 512	3999							
HPDOS87	HPDOS87R	1825	3 - 272	4000							
HPDOU54	HPDOU54R	1826	3 - 287	4001			H0694: 48, L0777: 14, H0521: 11, L0794: 10, L0748: 10, L0747: 10, S0214: 9, S0360: 8,				

				S0003: 8, H0644: 8, L0439: 8; H0553: 7, L0662: 7, L0659: 7, L0588: 7, H0543: 7, H0038: 6, L0646: 6, H0436: 6, L0740: 6, H0341: 5, S0358: 5, H0580: 5, H0545: 5, H0494: 5, L0666: 5, L0665: 5, L0779: 5, L0599: 5, H0542: 5, H0656: 4, H0486: 4, H0046: 4, H0014: 4, H0551: 4, S0440: 4, H0529: 4, L0764: 4, L0809: 4, S0126: 4, S0406: 4, L0757: 4, S0436: 4, L0591: 4, L0485: 4, L0362: 4, H0423: 4, H0624: 3, S0376: 3, S0444: 3, S0408: 3, S0410: 3, H0581: 3, H0031: 3, H0090: 3, S0142: 3, L0770: 3, L0637: 3, L0772: 3, L0521: 3, L0766: 3, L0774: 3, L0663: 3, L0664: 3, T0068: 3, H0547: 3, H0539: 3, L0758: 3,
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HPDOZ43	HPDOZ43R	1827	1 - 504	4002						
HPDPC65	HPDPC65RA	1828	2 - 178	4003						
HPDPC90	HPDPC90RA	1829	294 - 485	4004	Pro-6 to Gly-35, Arg-41 to Glu-47.					
HPDPH14	HPDPH14R	1830	94 - 291	4005						

HPDPK37	HPDPK37R	1831	1 - 420	4006				
HPDPN83	HPDPN83R	1832	365 - 3	4007			L0784: 2, H0428: 1, H0644: 1, S0366: 1, L0659: 1, L0636: 1, L0789: 1 and H0658: 1.	
HPDPP69	HPDPP69R	1833	260 - 463	4008			L0766: 2 and H0658: 2.	
HPDPQ10	HPDPQ10R	1834	369 - 581	4009	Gln-15 to Arg-20, Arg-35 to Ser-40.			
HPDPQ16	HPDPQ16R	1835	244 - 456	4010	Ile-5 to Lys-20.		L0794: 4, H0351: 3, H0083: 2, H0520: 2, H0658: 2, H0657: 1, H0341: 1, S0358: 1, L0586: 1, L0021: 1, T0110: 1, H0328: 1, H0040: 1, H0616: 1, H0625: 1, S0438: 1, S0440: 1, S0150: 1, H0130: 1, H0641: 1, L0800: 1, L0768: 1, L0803: 1, L0776: 1, L0657: 1, H0660: 1, S0328: 1, S0380: 1, S0406: 1, L0747: 1, H0343: 1, H0136: 1, H0423: 1, H0422: 1 and S0424: 1.	
HPDPR73	HPDPR73R	1836	80 - 463	4011	Asp-28 to His-35, Phe-43 to Trp-48, Asn-81 to Arg-86.			

HPDPS51	HPDPS51R	1837	2 - 214	4012		L0770: 4, L0771: 4, L0769: 3, L0757: 3, L0766: 2, L0779: 2, L0758: 2, H0170: 1, H0686: 1, S0476: 1, H0586: 1, L0637: 1, L0761: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0809: 1, L0791: 1, H0658: 1, H0696: 1, S3012: 1, S0390: 1, L0747: 1, L0752: 1, L0753: 1, L0759: 1, S0434: 1, L0592: 1 and H0543: 1.		
HPDPS90	HPDPS90R	1838	2 - 421	4013				
HPDPT86	HPDPT86R	1839	378 - 533	4014	Asp-17 to Asn-30.	L0439: 4, H0658: 2, S0474: 1, L0794: 1, L0804: 1, L0791: 1, L0755: 1 and L0599: 1.		
HPDPU66	HPDPU66R	1840	2 - 262	4015				
HPDPX12	HPDPX12RP 00B	1841	2 - 418	4016				
HPDPY83	HPDPY83RP 00B	1842	148 - 405	4017	Lys-32 to Glu-39, Glu-43 to Ala-50, Ala-52 to Glu-80.			
HPDQC34	HPDQC34R	1843	1 - 693	4018				
HPDQG58	HPDQG58R	1844	2 - 235	4019				
HPDQH11	HPDQH11R	1845	2 - 334	4020				

HPDQH34	HPDQH34R	1846	105 - 308	4021	Gln-12 to Ser-19, Gln-40 to Gln-54.			
HPDQI50	HPDQI50R	1847	3 - 545	4022		H0052: 11, L0439: 10, L0775: 8, H0046: 7, L0748: 7, L0438: 6, L0750: 6, L0666: 5, L0599: 5, S0358: 4, H0620: 4, H0038: 4, H0413: 4, L0369: 4, L0769: 4, L0659: 4, L0665: 4, S0328: 4, L0758: 4, S0418: 3, S0442: 3, S0410: 3, H0619: 3, H0599: 3, L0662: 3, L0768: 3, L0774: 3, L0653: 3, H0660: 3, H0521: 3, L0731: 3, S0434: 3, L0601: 3, S0026: 3, S0424: 3, H0556: 2, I0002: 2, H0295: 2, H0583: 2, H0656: 2, S0376: 2, S0444: 2, H0580: 2, S0045: 2, S0046: 2, S0222: 2, H0592: 2, H0586: 2, N0009: 2, H0013: 2, H0575: 2, H0618: 2, H0318: 2, H0196: 2, H0012: 2, H0373: 2,		

T0010: 2, S6028: 2, S0214: 2, H0031: 2, L0456: 2, H0708: 2, H0551: 2, H0264: 2, S0440: 2, H0509: 2, H0529: 2, L0763: 2, L0638: 2, L0637: 2, L0764: 2, L0381: 2, L0657: 2, L0783: 2, L0663: 2, S0152: 2, H0478: 2, S0028: 2, L0741: 2, L0777: 2, L0596: 2, L0588: 2, L0589: 2, L0605: 2, L0604: 2, H0665: 2, H0136: 2, H0543: 2, H0170: 1, H0265: 1, S0040: 1, H0717: 1, H0657: 1, L0417: 1, L0785: 1, H0381: 1, S0116: 1, H0341: 1, H0664: 1, H0402: 1, H0450: 1, S0356: 1, S0360: 1, H0208: 1, S0476: 1, H0411: 1, H0409: 1, H0613: 1, H0587: 1, H0497: 1, H0333: 1, H0643: 1, H0574: 1, L0623: 1, T0039: 1, H0427: 1,						
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HPDQI55	HPDQI55R	1848	1 - 441	4023	H0519: 1, H0711: 1, H0659: 1, H0658: 1, H0666: 1, H0648: 1, H0672: 1, S0378: 1, L0602: 1, H0518: 1, H0522: 1, S0406: 1, H0555: 1, H0187: 1, S0027: 1, S0032: 1, L0742: 1, L0754: 1, L0747: 1, L0780: 1, L0757: 1, L0759: 1, S0031: 1, S0436: 1, L0592: 1, L0581: 1, L0608: 1, L0593: 1, L0362: 1, L0366: 1, H0667: 1, H0542: 1, H0422: 1 and H0352: 1.		
HPDQI55	HPDQI55R	1848	1 - 441	4023	L0779: 5, L0803: 4, H0170: 3, L0663: 3, L0777: 3, H0687: 2, H0328: 2, H0038: 2, L0521: 2, L0809: 2, L0759: 2, L0589: 2, H0171: 1, S0046: 1, S0300: 1, L0717: 1, H0369: 1, H0550: 1, S0222: 1, H0586: 1, H0574: 1, H0042: 1, S0010: 1, H0544: 1, H0620: 1, H0014: 1,		

								H0373: 1, H0510: 1, S0003: 1, H0644: 1, H0316: 1, S0036: 1, H0063: 1, H0264: 1, H0509: 1, L0762: 1, L0662: 1, L0794: 1, L0649: 1, L0659: 1, L0518: 1, L0783: 1, L0789: 1, H0144: 1, H0547: 1, H0659: 1, H0658: 1, S0328: 1, H0696: 1, L0747: 1, L0780: 1, L0731: 1, L0588: 1, L0591: 1, L0599: 1 and L0595: 1.			
HPDQI70	HPDQI70R	1849	2 - 646	4024							
HPDQL55	HPDQL55R	1850	256 - 711	4025	Pro-5 to Arg-25, Lys-32 to Ser-39, Pro-63 to Pro-79, Pro-115 to His-121.			L0774: 3, L0809: 2, H0483: 1, H0306: 1, H0599: 1, H0618: 1, H0083: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0369: 1, L0763: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0790: 1, L0665: 1, H0658: 1, H0696: 1, L0748: 1, L0780: 1 and L0757: 1.			
HPDQR20	HPDQR20R	1851	1 - 639	4026				L0777: 21, L0748: 16, L0439: 12, S0360: 9,			

					L0659: 9, L0666: 9, L0803: 8, L0662: 7, L0747: 7, L0794: 6, L0663: 5, S0406: 5, L0770: 4, L0731: 4, L0758: 4, S0026: 4, S0356: 3, L0717: 3, H0156: 3, L0769: 3, L0809: 3, L0664: 3, H0520: 3, H0672: 3, H0521: 3, H0696: 3, L0750: 3, S0192: 3, H0542: 3, H0423: 3, H0624: 2, H0657: 2, S0420: 2, S0358: 2, S0376: 2, S0408: 2, H0013: 2, S0003: 2, S0214: 2, H0264: 2, H0412: 2, H0413: 2, S0440: 2, L0764: 2, L0766: 2, L0804: 2, L0774: 2, L0775: 2, L0806: 2, L0655: 2, L0665: 2, S0374: 2, L0438: 2, H0547: 2, H0519: 2, H0689: 2, H0660: 2, S0380: 2, H0522: 2, S0206: 2, L0749: 2, L0752: 2, L0759: 2, L0361: 2,
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			S0242: 2, H0170: 1, H0171: 1, L0448: 1, H0685: 1, H0716: 1, S0114: 1, H0656: 1, L0785: 1, S0400: 1, S0442: 1, S0444: 1, S0300: 1, S0222: 1, H0431: 1, H0586: 1, H0632: 1, L0623: 1, H0069: 1, H0036: 1, H0581: 1, H0309: 1, H0263: 1, H0327: 1, H0545: 1, H0150: 1, L0471: 1, H0024: 1, H0014: 1, T0010: 1, H0083: 1, H0252: 1, H0615: 1, H0688: 1, H0622: 1, L0483: 1, H0068: 1, S0366: 1, H0598: 1, H0163: 1, H0090: 1, H0040: 1, T0067: 1, H0623: 1, T0069: 1, H0494: 1, S0372: 1, S0448: 1, H0714: 1, H0641: 1, S0142: 1, S0210: 1, L0369: 1, L0646: 1, L0641: 1, L0771: 1, L0387: 1, L0651: 1, L0378: 1, L0653: 1,					
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							L0542: 1, L0647: 1, L0787: 1, H0658: 1, H0670: 1, H0648: 1, H0539: 1, H0710: 1, S0332: 1, H0478: 1, H0627: 1, L0755: 1, S0436: 1, L0605: 1, L0362: 1, H0667: 1, S0276: 1, H0543: 1, H0422: 1, H0506: 1 and H0352: 1.			
HPDQR88	HPDQR88R	1852	2 - 550	4027	Gln-121 to Glu-136, Ala-153 to Ser-162, Ala-176 to Ser-182.					
HPDQS14	HPDQS14R	1853	113 - 325	4028						
HPDQS25	HPDQS25R	1854	25 - 273	4029						
HPDQS63	HPDQS63R	1855	25 - 258	4030	Phe-25 to Arg-34, Cys-51 to His-56, Glu-66 to Ser-75.					
HPDQS66	HPDQS66R	1856	134 - 322	4031			H0658: 2, L0745: 2, S0422: 1, H0648: 1 and L0731: 1.			
HPDQS76	HPDQS76R	1857	41 - 175	4032	His-2 to Trp-13, Lys-22 to Cys-31.		L0748: 9, L0774: 3, H0331: 2, H0632: 2, L0526: 2, H0658: 2, L0581: 2, H0574: 1 and L0790: 1.			
HPDQT32	HPDQT32R	1858	3 - 410	4033	Gly-17 to Glu-26, Lys-32 to Leu-37, Phe-46 to Thr-52,		H0542: 11, H0265: 7, H0543: 7, L0751: 5, S0424: 5, H0556: 4,			

Ile-103 to Gly-109, Lys-128 to Gln-136.	S0420: 4, S0010: 4, S0142: 4, L0659: 4, L0743: 4, L0747: 4, L0753: 4, H0657: 3, H0370: 3, H0618: 3, H0251: 3, H0545: 3, H0457: 3, H0620: 3, H0644: 3, H0560: 3, L0775: 3, L0663: 3, H0672: 3, S3012: 3, L0748: 3, S0212: 2, S0418: 2, S0360: 2, H0580: 2, S0222: 2, H0427: 2, H0253: 2, S0049: 2, H0327: 2, L0471: 2, H0617: 2, H0124: 2, S0366: 2, H0412: 2, L0667: 2, L0655: 2, H0690: 2, H0682: 2, H0658: 2, H0670: 2, H0660: 2, H0627: 2, S0027: 2, L0741: 2, L0740: 2, H0506: 2, H0170: 1, T0002: 1, H0686: 1, H0381: 1, H0484: 1, H0255: 1, H0663: 1, H0664: 1, H0638: 1, S0358: 1, H0675: 1, H0637: 1, S0468: 1,					
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H0208: 1, S0132: 1, S0278: 1, S0005: 1, H0497: 1, H0156: 1, L0021: 1, H0318: 1, H0052: 1, T0103: 1, H0544: 1, H0178: 1, H0172: 1, S0051: 1, H0083: 1, H0355: 1, H0510: 1, H0594: 1, H0188: 1, H0687: 1, H0622: 1, L0194: 1, L0483: 1, T0006: 1, H0033: 1, H0424: 1, H0031: 1, H0606: 1, H0166: 1, H0674: 1, H0591: 1, H0063: 1, H0087: 1, T0067: 1, L0351: 1, H0494: 1, H0561: 1, S0352: 1, S0440: 1, H0633: 1, H0647: 1, S0144: 1, S0344: 1, S0426: 1, H0529: 1, L0369: 1, L0372: 1, L0646: 1, L0800: 1, L0662: 1, L0768: 1, L0766: 1, L0650: 1, L0376: 1, L0776: 1, L0657: 1, L0636: 1, L0542: 1, L0783: 1, L0787: 1,
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HPDQU81	HPDQU81R	1859	3 - 269	4034	Pro-25 to Thr-32.	L0666: 1, L0664: 1, L0665: 1, H0593: 1, H0684: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, H0539: 1, S0378: 1, H0521: 1, H0555: 1, H0631: 1, L0744: 1, L0750: 1, L0777: 1, L0752: 1, L0757: 1, L0758: 1, L0596: 1, L0485: 1, L0593: 1, L0601: 1, S0011: 1, S0026: 1, S0192: 1 and H0352: 1. L0731: 4, L0775: 3, L0740: 3, H0170: 2, S0426: 2, L0770: 2, L0646: 2, L0766: 2, L0754: 2, H0344: 1, H0295: 1, H0393: 1, H0592: 1, H0318: 1, S6028: 1, H0038: 1, H0551: 1, L0642: 1, L0803: 1, L0774: 1, L0776: 1, L0663: 1, H0658: 1, S0332: 1, L0748: 1, L0777: 1, L0752: 1, L0757: 1, H0445: 1, S0424: 1 and S0384: 1.		
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HPDQV07	HPDQV07R	1860	2 - 421	4035				
HPDQV49	HPDQV49R	1861	246 - 401	4036				
HPDQW39	HPDQW39R	1862	68 - 550	4037	Asn-20 to Asp-25, Met-75 to Asp-81, Arg-144 to Thr-152.	AR104: 42, AR089: 22, AR060: 7, AR096: 4, AR055: 2, AR061: 1		
HPDQX13	HPDQX13R	1863	113 - 391	4038	Lys-1 to Leu-23, Ala-27 to Ser-34, Gly-36 to Phe-44.			
HPDQY23	HPDQY23R	1864	3 - 476	4039				
HPDQY65	HPDQY65R	1865	3 - 437	4040				
HPDQY88	HPDQY88R	1866	164 - 340	4041				
HPDQY95	HPDQY95R	1867	29 - 430	4042	Leu-11 to Cys-24, Leu-30 to Ser-36, Gly-93 to Glu-99.			
HPDQZ30	HPDQZ30R	1868	212 - 538	4043				
HPDQZ65	HPDQZ65R	1869	3 - 506	4044	Ser-120 to Tyr-126, Gly-137 to Arg-142, Ser-160 to Ser-168.			
HPDRA44	HPDRA44R	1870	1 - 525	4045				
HPDRA50	HPDRA50R	1871	1 - 384	4046				
HPDRF65	HPDRF65R	1872	230 - 559	4047	Glu-1 to Pro-9.			
HPDRG34	HPDRG34R	1873	79 - 270	4048		H0031: 2, H0135: 1, H0272: 1 and H0658: 1.		
HPDRG73	HPDRG73R	1874	2 - 481	4049	Ala-2 to Gly-8.			
HPDRM77	HPDRM77R	1875	1 - 177	4050				
HPDRM93	HPDRM93R	1876	3 - 302	4051				
HPDRO04	HPDRO04R	1877	2 - 307	4052	Gly-1 to Cys-24,			

HPDRO64	HPDRO64R	1878	249 - 509	4053	Cys-27 to Gly-43, Ala-46 to Trp-54, Ala-56 to Arg-68, Phe-83 to Arg-93. Thr-4 to His-17, Ser-21 to Gln-27.	S0132: 1, H0156: 1, H0575: 1, H0551: 1, H0658: 1, H0670: 1, H0555: 1 and L0439: 1.		
HPDRP36	HPDRP36R	1879	3 - 323	4054	Thr-57 to Phe-62, Gly-68 to Phe-73, His-86 to Tyr-92, Asp-97 to Phe-103.	L0766: 11, L0752: 7, L0754: 5, H0547: 4, S0358: 3, S0022: 3, L0756: 3, L0777: 3, H0625: 2, L0065: 2, S0438: 2, L0805: 2, L0776: 2, H0658: 2, S0328: 2, L0740: 2, L0745: 2, L0747: 2, L0750: 2, L0731: 2, L0601: 2, H0542: 2, H0543: 2, H0423: 2, S0424: 2, H0341: 1, H0661: 1, H0664: 1, H0306: 1, H0402: 1, H0638: 1, S0360: 1, H0580: 1, H0645: 1, H0443: 1, H0357: 1, H0592: 1, H0587: 1, H0574: 1, H0486: 1, H0270: 1, H0156: 1, T0048: 1, H0052: 1.		

							H0375: 1, H0687: 1, H0328: 1, H0169: 1, H0598: 1, H0551: 1, H0413: 1, T0042: 1, H0561: 1, S0422: 1, H0529: 1, L0520: 1, L0536: 1, L0772: 1, L0649: 1, L0803: 1, L0809: 1, L0666: 1, L0665: 1, H0144: 1, H0520: 1, H0519: 1, H0659: 1, H0651: 1, S0380: 1, H0696: 1, S0404: 1, S0406: 1, H0555: 1, L0744: 1, L0749: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, S0434: 1, S0436: 1, L0599: 1, L0608: 1, L0594: 1 and H0422: 1.			
HPDRP41	HPDRP41R	1880	2 - 622	4055	Gly-8 to Val-14, Gln-20 to Asp-27, Met-79 to His-88, Arg-171 to Tyr-183, Pro-198 to Gly-204.					
HPDRQ66	HPDRQ66R	1881	27 - 290	4056		L0748: 3, H0556: 2, S0420: 2, S0045: 2, H0171: 1, H0265: 1, S0134: 1, H0657: 1.				

						H0341: 1, S0110: 1, H0661: 1, H0305: 1, H0580: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1, H0257: 1, H0069: 1, H0575: 1, T0048: 1, H0327: 1, H0252: 1, H0634: 1, H0412: 1, H0059: 1, H0633: 1, S0344: 1, H0529: 1, L0521: 1, L0806: 1, L0805: 1, H0435: 1, H0658: 1, H0672: 1, S0378: 1, L0747: 1, L0599: 1, S0026: 1 and H0542: 1.			
HPDRQ84	HPDRQ84R	1882	1 - 441	4057	Gly-6 to Ser-16, Glu-19 to Ala-33, Glu-44 to Lys-60, Ile-135 to Lys-147.				
HPDRR71	HPDRR71R	1883	1 - 543	4058	Ala-3 to Lys-11, Gly-112 to Glu-117.				
HPDRS43	HPDRS43R	1884	59 - 211	4059					
HPDRS46	HPDRS46R	1885	3 - 332	4060	Lys-94 to Ser-100.				
HPDRS87	HPDRS87R	1886	2 - 508	4061	Lys-32 to Glu-38, Ser-44 to Ser-55, Gln-67 to Gly-78, Glu-85 to Glu-90, Gly-108 to Ser-114, Phe-149 to Lys-158.				

HPDRT36	HPDRT36R	1887	59 - 214	4062	Lys-25 to Arg-36.	L0754: 19, L0731: 18, H0521: 15, L0777: 11, L0766: 8, L0755: 7, H0581: 6, L0659: 6, L0751: 6, H0486: 5, H0266: 5, H0553: 5, L0662: 5, L0663: 5, H0144: 5, L0439: 5, S0276: 5, H0638: 4, S0360: 4, H0644: 4, S0374: 4, S0330: 4, L0740: 4, L0756: 4, L0599: 4, L0362: 4, H0423: 4, H0657: 3, H0663: 3, H0580: 3, H0575: 3, S0003: 3, H0622: 3, H0124: 3, H0264: 3, H0623: 3, S0002: 3, L0520: 3, L0764: 3, L0775: 3, L0655: 3, L0519: 3, H0519: 3, H0659: 3, H0658: 3, S0328: 3, L0744: 3, L0747: 3, L0759: 3, S0026: 3, S0194: 3, H0624: 2, H0656: 2, H0341: 2, S0354: 2, S0408: 2, S0046: 2, H0619: 2, H0013: 2, H0250: 2,		
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H0545: 2, L0471: 2, H0428: 2, L0142: 2, H0551: 2, T0067: 2, H0561: 2, H0641: 2, S0210: 2, L0772: 2, L0771: 2, L0794: 2, L0803: 2, L0661: 2, L0544: 2, L0793: 2, L0666: 2, L0665: 2, S0216: 2, L0565: 2, H0648: 2, S0152: 2, H0522: 2, H0555: 2, H0345: 2, S0027: 2, L0750: 2, L0779: 2, L0752: 2, L0758: 2, H0445: 2, S0434: 2, L0591: 2, L0594: 2, H0653: 2, H0422: 2, H0159: 1, S0134: 1, H0583: 1, H0650: 1, S0212: 1, H0661: 1, H0662: 1, H0402: 1, S0358: 1, S0444: 1, T0008: 1, S0045: 1, S0132: 1, H0411: 1, H0369: 1, H0370: 1, T0039: 1, T0060: 1, H0042: 1, H0590: 1, T0048: 1, H0318: 1, H0596: 1, L0738: 1,							
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	H0046: 1, L0157: 1, H0565: 1, H0024: 1, S0388: 1, H0267: 1, S0250: 1, S0214: 1, H0328: 1, H0030: 1, H0383: 1, H0673: 1, H0169: 1, H0316: 1, H0163: 1, H0090: 1, H0591: 1, H0040: 1, H0634: 1, H0488: 1, H0268: 1, H0412: 1, H0413: 1, H0056: 1, L0435: 1, H0494: 1, S0370: 1, H0646: 1, H0652: 1, S0344: 1, S0426: 1, L0371: 1, L0646: 1, L0800: 1, L0765: 1, L0648: 1, L0768: 1, L0389: 1, L0552: 1, L0774: 1, L0805: 1, L0653: 1, L0776: 1, L0658: 1, L0542: 1, L0809: 1, L0647: 1, H0701: 1, H0691: 1, S0126: 1, H0711: 1, H0683: 1, H0518: 1, S0454: 1, S0013: 1, H0479: 1, S0206: 1, L0743: 1, S0260: 1, H0343: 1,					
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HPDRT37	HPDRT37R	1888	3 - 560	4063	Ala-2 to Asp-9, Arg-18 to Gly-26, Asn-34 to Arg-43, Ala-52 to Asp-57.	L0584: 1, H0542: 1 and S0412: 1.		
HPDRT38	HPDRT38R	1889	2 - 196	4064	Leu-48 to Lys-63.			
HPDRU03	HPDRU03R	1890	2 - 334	4065				
HPDRU37	HPDRU37R	1891	1 - 297	4066	Glu-11 to Pro-16, Arg-46 to Tyr-56, Asp-63 to Asp-69.			
HPDRU71	HPDRU71R	1892	458 - 703	4067				
HPDRV73	HPDRV73R	1893	1 - 528	4068	Glu-54 to Val-64, Leu-97 to Leu-105.			
HPDRV79	HPDRV79R	1894	300 - 596	4069	Ser-14 to Gly-20.	L0794: 6, L0758: 6, L0747: 5, L0770: 4, L0809: 4, H0620: 3, L0764: 3, H0658: 3, H0618: 2, H0012: 2, H0135: 2, L0769: 2, L0771: 2, L0773: 2, L0662: 2, L0803: 2, L0532: 2, S0126: 2, L0756: 2, S6024: 1, S0282: 1, H0638: 1, S0420: 1, L0717: 1, S0222: 1, H0441: 1, H0333: 1, L0622: 1, H0309: 1, H0597: 1, S0388: 1, S0051: 1,		

						T0010: 1, H0271: 1, H0687: 1, L0483: 1, H0604: 1, H0030: 1, H0181: 1, H0617: 1, H0412: 1, L0667: 1, L0646: 1, L0800: 1, L0643: 1, L0374: 1, L0364: 1, L0766: 1, L0649: 1, L0804: 1, L0523: 1, L0805: 1, L0655: 1, L0607: 1, L0657: 1, L0559: 1, L0659: 1, L0517: 1, L0529: 1, L0647: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, T0068: 1, L0438: 1, H0670: 1, H0627: 1, L0748: 1, L0439: 1, L0751: 1, L0777: 1, L0731: 1, L0757: 1, S0031: 1, L0605: 1, H0542: 1, H0543: 1, H0423: 1, L0697: 1 and S0462: 1.			
HPDRW09	HPDRW09R	1895	1 - 231	4070	Ala-31 to Gln-37, Lys-63 to Ser-69.				
HPDRW51	HPDRW51R	1896	192 - 587	4071					
HPDRY37	HPDRY37R	1897	2 - 322	4072	Pro-3 to Gly-8, Pro-70 to Pro-85.				

HPDRZ11	HPDRZ11R	1898	1 - 354	4073	Arg-13 to Gly-26, Asn-35 to Gln-40.			
HPDRZ29	HPDRZ29R	1899	3 - 509	4074	Val-30 to Trp-36, Ala-53 to Glu-67.	H0457: 9, L0766: 7, H0046: 5, H0650: 4, H0634: 3, L0659: 3, L0439: 3, H0716: 2, H0656: 2, H0254: 2, H0255: 2, H0333: 2, H0253: 2, H0081: 2, H0083: 2, H0628: 2, L0761: 2, L0800: 2, H0658: 2, L0750: 2, H0543: 2, H0422: 2, H0265: 1, H0657: 1, S0001: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0722: 1, S0045: 1, H0550: 1, S0222: 1, H0614: 1, H0613: 1, H0069: 1, H0427: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, H0327: 1, H0545: 1, H0041: 1, H0050: 1, H0354: 1, H0266: 1, H0179: 1, H0428: 1, H0622: 1, S0366: 1, S0036: 1, H0087: 1, H0264: 1, H0488: 1, L0435: 1,		

HPDVA01	HPDVA01R	1900	774 - 484	4075				H0022: 1, T0041: 1, H0560: 1, S0142: 1, S0426: 1, H0695: 1, H0529: 1, L0644: 1, L0764: 1, L0662: 1, L0649: 1, L0375: 1, L0805: 1, L0658: 1, L0809: 1, L0789: 1, L0792: 1, L0532: 1, L0663: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0330: 1, H0539: 1, H0518: 1, H0521: 1, S0406: 1, H0555: 1, H0436: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, L0744: 1, L0749: 1, L0756: 1, H0445: 1, S0434: 1, H0136: 1, S0276: 1 and H0542: 1.		
HPDVA06	HPDVA06R	1901	243 - 380	4076						
HPDVB37	HPDVB37R	1902	40 - 315	4077	Pro-2 to Lys-18.			L0748: 10, L0803: 3, L0439: 3, L0751: 3, L0626: 2, L0809: 2, L0790: 2, H0658: 2, L0744: 2, L0740: 2, L0754: 2, L0747: 2, L0756: 2, L0752: 2.		

									L0758: 2, H0170: 1, H0645: 1, H0351: 1, H0370: 1, H0497: 1, S0388: 1, T0067: 1, L0772: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0774: 1, L0776: 1, L0666: 1, L0663: 1, L0665: 1, L0438: 1, S0044: 1, L0745: 1, L0749: 1, L0755: 1, L0757: 1 and S0031: 1.			
HPDVB70	HPDVB70R	1903	2 - 778	4078								
HPDVC28	HPDVC28R	1904	50 - 136	4079								
HPDVE55	HPDVE55R	1905	89 - 220	4080	Pro-8 to Pro-13.							
HPDVG06	HPDVG06R	1906	3 - 326	4081	Gln-22 to Val-33, Pro-37 to Gly-45, Ser-56 to Thr-65, Arg-82 to Thr-92.							
HPDVG67	HPDVG67R	1907	193 - 450	4082	Glu-79 to Gln-86.							
HPDVI25	HPDVI25R	1908	1 - 510	4083	Met-32 to Lys-37, Asp-44 to Ala-60.							
HPDVI95	HPDVI95R	1909	3 - 338	4084	Ala-32 to Thr-42, Lys-55 to Phe-60, Asp-85 to Gly-90, Arg-95 to Thr-100.							
HPDVK74	HPDVK74R	1910	3 - 425	4085	Ile-20 to Gly-29, Asn-82 to Thr-87.							

HPDVK79	HPDVK79R	1911	61 - 597	4086	Arg-8 to Lys-13, Gly-35 to Lys-42, Ala-48 to Lys-54.			
HPDVK93	HPDVK93R	1912	2 - 697	4087				
HPDVL36	HPDVL36R	1913	8 - 265	4088				
HPDVL45	HPDVL45R	1914	1 - 303	4089	Gly-1 to Phe-8, Pro-39 to Thr-61, Pro-66 to Phe-71, Arg-84 to Pro-89.	H0656: 3, S0218: 1, S0116: 1, S0356: 1, H0586: 1, H0333: 1, H0486: 1, H0427: 1, S0280: 1, H0545: 1, H0135: 1, H0087: 1, H0695: 1, H0547: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, H0521: 1, L0439: 1, H0543: 1 and H0423: 1.		
HPDVL52	HPDVL52R	1915	60 - 350	4090	Ala-5 to Val-11, Leu-15 to Lys-23, Lys-39 to Ile-44.	H0656: 1, S0116: 1, S0376: 1, T0110: 1, T0042: 1, H0494: 1, L0649: 1, L0774: 1, L0665: 1, H0658: 1, L0748: 1, L0757: 1, H0667: 1 and H0543: 1.		
HPDVM61	HPDVM61R	1916	101 - 364	4091	Lys-13 to Leu-24, Arg-31 to Pro-54.			
HPDVM63	HPDVM63R	1917	1 - 576	4092	Ala-34 to Thr-46, Asp-59 to Lys-73, Ala-86 to Gln-94, Pro-99 to Gln-109, Glu-129 to Thr-141.			

HPDVM86	HPDVM86R	1918	2 - 406	4093	Asp-160 to Asn-168. Ala-33 to Cys-41, Thr-58 to Pro-66.	H0521: 43, S0278: 39, S0144: 30, S0142: 26, H0522: 18, S0344: 15, S0002: 14, H0638: 13, H0580: 11, H0641: 10, L0755: 10, L0599: 10, H0250: 9, H0271: 8, H0622: 8, H0575: 7, S0426: 7, L0775: 7, L0776: 7, L0751: 7, L0754: 7, H0125: 6, S0376: 6, S0132: 6, H0069: 6, H0090: 6, S0360: 5, H0486: 5, S0022: 5, L0731: 5, H0584: 4, H0657: 4, S0354: 4, S0358: 4, S0140: 4, H0581: 4, H0674: 4, L0764: 4, L0657: 4, L0665: 4, S0052: 4, S0428: 4, L0749: 4, L0752: 4, H0445: 4, L0591: 4, H0656: 3, L0785: 3, H0663: 3, H0370: 3, H0042: 3, H0004: 3, H0318: 3, H0031: 3, H0059: 3, L0769: 3.		
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L0372: 3, L0646: 3, L0806: 3, L0659: 3, L0666: 3, S0126: 3, H0658: 3, H0518: 3, H0555: 3, L0750: 3, H0255: 2, H0662: 2, H0637: 2, H0431: 2, H0574: 2, H0632: 2, H0545: 2, H0083: 2, S0214: 2, H0644: 2, H0032: 2, H0634: 2, S0440: 2, H0652: 2, L0770: 2, L0637: 2, L0771: 2, L0653: 2, L0783: 2, L0664: 2, H0660: 2, H0134: 2, H0187: 2, S3014: 2, L0748: 2, L0777: 2, L0758: 2, S0434: 2, L0595: 2, L0601: 2, H0167: 1, H0159: 1, S0342: 1, S0114: 1, S0134: 1, H0650: 1, H0661: 1, H0664: 1, H0306: 1, H0402: 1, H0192: 1, S0418: 1, H0645: 1, H0393: 1, H0537: 1, T0104: 1, H0586: 1, H0497: 1, H0331: 1, H0101: 1,
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HPDVO67	HPDVO67R	1919	1 - 465	4094	Glu-1 to Asp-6, Thr-11 to Glu-20, Val-61 to Gln-66.	H0214: 1, S0404: 1, H0576: 1, L0779: 1, L0780: 1, L0757: 1, L0593: 1, S0011: 1, H0665: 1, H0542: 1, H0423: 1 and S0458: 1.		
HPDVQ74	HPDVQ74R	1920	3 - 278	4095	Pro-1 to Ala-9, Arg-17 to Glu-25.	AR039: 4, AR096: 4, AR052: 2, AR089: 2, AR061: 2, AR060: 2, AR104: 2, AR033: 1, AR055: 1, AR053: 0 L0666: 4, H0253: 2, H0622: 2, H0670: 2, L0743: 2, H0181: 1, L0372: 1, L0773: 1, L0767: 1, L0657: 1, L0665: 1, H0658: 1, L0751: 1, L0749: 1, L0779: 1, L0777: 1, L0758: 1 and L0593: 1.		
HPDVQ82	HPDVQ82R	1921	29 - 421	4096		H0658: 2		
HPDVT30	HPDVT30R	1922	3 - 284	4097		L0754: 2, H0685: 1, T0010: 1, H0658: 1 and H0423: 1.		
HPDVT37	HPDVT37R	1923	1 - 333	4098				
HPDVTU28	HPDVTU28R	1924	91 - 693	4099	Val-1 to Glu-9, Pro-26 to Gly-31, Tyr-67 to Glu-74,			

HPDVU72	HPDVU72R	1925	3 - 548	4100	<p>Phe-107 to Glu-118, Lys-162 to Arg-173.</p> <p>Ser-1 to His-7, Thr-15 to Arg-29, His-31 to Val-42, Pro-52 to Pro-94, Glu-113 to Ala-131, Lys-161 to Arg-167.</p>	<p>L0777: 6, L0766: 5, L0749: 5, L0601: 4, L0758: 3, H0617: 2, L0769: 2, L0794: 2, L0805: 2, L0657: 2, L0665: 2, H0693: 2, S0028: 2, L0439: 2, L0751: 2, L0747: 2, L0779: 2, L0588: 2, S0114: 1, H0650: 1, H0657: 1, H0402: 1, H0638: 1, S0354: 1, S0360: 1, S0045: 1, S6026: 1, H0550: 1, H0156: 1, H0253: 1, H0421: 1, T0115: 1, H0150: 1, H0014: 1, S0051: 1, S6028: 1, H0688: 1, L0483: 1, H0181: 1, H0163: 1, H0090: 1, H0087: 1, H0560: 1, H0646: 1, S0210: 1, L0763: 1, L0638: 1, L0761: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0659: 1, L0384: 1, L0789: 1, H0690: 1,</p>		
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HPDVU88	HPDVU88R	1926	3 - 191	4101	Pro-6 to Ala-16.						
HPDVV78	HPDVV78R	1927	78 - 644	4102							
HPDWA35	HPDWA35R	1928	3 - 302	4103				H0658: 2			
HPDWA88	HPDWA88R	1929	3 - 560	4104							
HPDWB40	HPDWB40R	1930	175 - 306	4105	Arg-1 to Glu-8, Ala-31 to Trp-39.						
HPDWC30	HPDWC30R	1931	231 - 383	4106							
HPDWC75	HPDWC75R	1932	1 - 390	4107	Ala-3 to Ala-10, Pro-15 to Pro-23, Glu-79 to Ser-88, Pro-115 to Arg-122.						
HPDWD44	HPDWD44R	1933	214 - 471	4108				H0271: 13, H0436: 11, L0766: 8, H0581: 5, L0754: 5, S0242: 5, H0556: 4, H0635: 4, L0800: 4, L0662: 4, L0804: 4, L0655: 4, L0659: 4, L0789: 4, L0751: 4, L0757: 4, L0591: 4, S0356: 3, H0069: 3, H0416: 3, L0803: 3, L0747: 3, H0445: 3, H0423: 3, H0422: 3, H0395: 2,			

S0134: 2, H0662: 2, H0402: 2, S0354: 2, S0046: 2, S0132: 2, H0587: 2, H0642: 2, H0014: 2, H0179: 2, H0644: 2, H0032: 2, H0090: 2, H0396: 2, H0633: 2, S0422: 2, L0375: 2, L0806: 2, L0607: 2, L0666: 2, L0663: 2, S0052: 2, S0053: 2, S0216: 2, H0521: 2, L0740: 2, L0779: 2, L0777: 2, L0758: 2, L0596: 2, L0599: 2, H0394: 1, S0114: 1, H0657: 1, H0656: 1, S0298: 1, H0306: 1, S0376: 1, H0411: 1, H0607: 1, H0632: 1, H0257: 1, H0492: 1, H0486: 1, L0021: 1, H0318: 1, H0196: 1, H0545: 1, H0457: 1, H0083: 1, S6028: 1, L0483: 1, H0591: 1, H0634: 1, H0623: 1, H0560: 1, H0641: 1, S0344: 1, L0770: 1, L0372: 1,							
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HPDWD67	HPDWD67R	1934	220 - 2	4109	Asp-65 to Gly-73.	L0646: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0657: 1, L0783: 1, L0664: 1, L0665: 1, S0428: 1, S0374: 1, H0689: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, H0518: 1, H0576: 1, H0478: 1, S3014: 1, L0749: 1, H0543: 1 and S0458: 1.		
HPDWD69	HPDWD69R	1935	3 - 353	4110	Ser-1 to His-19, Val-86 to Pro-105, Pro-110 to Met-117.	L0588: 18, S0408: 16, S0007: 12, S0444: 11, H0677: 11, H0648: 10, L0769: 9, H0670: 9, S0328: 9, H0651: 8, S0406: 8, H0657: 7, H0341: 7, H0402: 7, H0659: 7, L0748: 7, H0543: 7, T0049: 6, H0251: 6, L0775: 6, L0742: 6, H0422: 6, L0471: 5, H0617: 5, S0440: 5, L0517: 5, S0374: 5, H0658: 5, H0696: 5, L0749: 5, H0423: 5, H0295: 4, S0114: 4, S0134: 4.		

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	H0581: 2, S0049: 2, H0083: 2, H0031: 2, H0163: 2, H0551: 2, H0059: 2, S0210: 2, L0762: 2, L0764: 2, L5564: 2, L0653: 2, L0655: 2, L0634: 2, L0526: 2, L0783: 2, L0543: 2, L0368: 2, H0691: 2, H0547: 2, H0690: 2, H0684: 2, S0330: 2, H0710: 2, L0754: 2, L0747: 2, L0750: 2, L0777: 2, L0755: 2, L0590: 2, L0581: 2, L0599: 2, L0608: 2, L0604: 2, L0362: 2, H0653: 2, H0721: 2, H0686: 1, S0430: 1, L0760: 1, S0116: 1, S0212: 1, H0484: 1, H0663: 1, H0306: 1, H0458: 1, H0459: 1, L0534: 1, L0005: 1, S0442: 1, S0376: 1, S0045: 1, S0132: 1, S0476: 1, H0393: 1, H0640: 1, H0411: 1, S0278: 1, H0455: 1, H0592: 1,				
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T0039: 1, T0060: 1, H0706: 1, S0010: 1, T0048: 1, H0318: 1, H0309: 1, H0596: 1, T0115: 1, L0040: 1, H0231: 1, H0546: 1, H0545: 1, H0009: 1, H0057: 1, H0018: 1, S0051: 1, H0510: 1, H0375: 1, H0109: 1, S0022: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, T0006: 1, H0424: 1, H0628: 1, H0673: 1, H0708: 1, S0366: 1, S0036: 1, H0135: 1, H0040: 1, H0634: 1, H0063: 1, H0087: 1, H0116: 1, H0264: 1, H0413: 1, H0100: 1, L0564: 1, H0494: 1, H0561: 1, H0641: 1, H0646: 1, S0144: 1, S0344: 1, L0506: 1, L0761: 1, L0646: 1, L0771: 1, L0648: 1, L0521: 1, L0662: 1, L0387: 1, L0375: 1, L0806: 1, L0654: 1, L0661: 1,						
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							L0807: 1, L0542: 1, L0519: 1, L0530: 1, L0790: 1, L0663: 1, H0144: 1, H0724: 1, H0660: 1, H0666: 1, H0672: 1, H0518: 1, H0521: 1, S0190: 1, H0134: 1, H0187: 1, H0436: 1, S3014: 1, S0028: 1, L0751: 1, L0779: 1, L0757: 1, S0031: 1, H0445: 1, S0436: 1, H0668: 1, S0026: 1, S0276: 1 and S0424: 1.			
HPDWD81	HPDWD81R	1936	1 - 378	4111	Asn-60 to Gly-72, Pro-83 to Trp-114, Ser-117 to Arg-126.					
HPDWE11	HPDWE11R	1937	2 - 121	4112	Arg-1 to Gln-9.					
HPDWE64	HPDWE64R	1938	248 - 559	4113		H0575: 2, L0002: 1, S0336: 1, H0487: 1, L0762: 1, L0637: 1, L0805: 1, L0659: 1, H0658: 1, L0777: 1 and L0731: 1.				
HPDWF93	HPDWF93R	1939	1 - 507	4114	Pro-3 to Pro-12.					
HPDVG51	HPDVG51R	1940	169 - 342	4115	Phe-1 to Cys-13, Gly-28 to Ser-35.	H0038: 5, H0616: 3, L0752: 3, S0418: 2, H0620: 2, H0547: 2, L0602: 2, H0521: 2,				

							L0751: 2, S0212: 1, S0282: 1, H0638: 1, S0358: 1, S0007: 1, H0261: 1, H0575: 1, S0346: 1, H0596: 1, L0471: 1, L0163: 1, H0071: 1, H0510: 1, S0003: 1, H0488: 1, S0038: 1, H0509: 1, H0649: 1, S0144: 1, L0803: 1, S0374: 1, H0519: 1, S0126: 1, H0658: 1, H0518: 1, S0013: 1, S0044: 1, L0743: 1, L0744: 1, L0748: 1, L0759: 1, L0599: 1 and S0424: 1.			
HPDWL56	HPDWL56R	1941	2 - 388	4116						
HPDWL70	HPDWL70R	1942	174 - 308	4117						
HPDWN46	HPDWN46R	1943	1 - 585	4118	Arg-21 to Gly-32, Pro-63 to Ser-79, Thr-92 to Pro-100, Glu-107 to Glu-126, Glu-133 to Ser-146, Ser-148 to Thr-157.	H0556: 30, H0659: 9, L0439: 9, S0406: 8, H0494: 7, S0360: 6, L0771: 6, H0634: 5, S0206: 5, L0777: 5, H0265: 4, H0657: 4, S0328: 4, S0152: 4, S0146: 4, L0748: 4, L0751: 4, L0749: 4, H0423: 4, S0040: 3, H0497: 3, H0623: 3,				

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HPDWN65	HPDWN65R	1944	1 - 246	4119			L0055: 1, H0673: 1, H0068: 1, H0551: 1, T0069: 1, L0435: 1, H0625: 1, S0002: 1, L0369: 1, L0637: 1, L0764: 1, L0774: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0606: 1, L0657: 1, L0783: 1, L0382: 1, L0792: 1, H0701: 1, S0374: 1, H0519: 1, S0126: 1, H0658: 1, H0670: 1, H0648: 1, S0390: 1, S0037: 1, L0744: 1, L0747: 1, L0779: 1, L0731: 1, L0759: 1, H0445: 1, S0434: 1, L0584: 1, H0667: 1, S0194: 1, H0542: 1, H0543: 1, H0422: 1 and S0424: 1.		
HPDWN69	HPDWN69R	1945	2 - 607	4120	Gly-2 to Pro-9, Ser-24 to Thr-33.				
HPDWO08	HPDWO08R	1946	351 - 704	4121			L0766: 5, H0551: 3, L0769: 3, L0639: 3, H0327: 2, S0002: 2, L0764: 2, L0659: 2.		

									L0663: 2, L0777: 2, S0356: 1, S0360: 1, S0410: 1, L0717: 1, H0261: 1, H0550: 1, S0222: 1, T0109: 1, H0575: 1, T0048: 1, H0052: 1, S0051: 1, L0455: 1, H0124: 1, H0135: 1, H0063: 1, H0087: 1, L0763: 1, L0770: 1, L0796: 1, L0761: 1, L0643: 1, L0374: 1, L0771: 1, L0626: 1, L0635: 1, L0542: 1, L0809: 1, L0665: 1, L0565: 1, H0547: 1, H0658: 1, H0522: 1, L0756: 1, L0758: 1 and L0366: 1.			
HPDWO29	HPDWO29R	1947	386 - 568	4122	His-1 to Gly-13.							
HPDWO50	HPDWO50R	1948	27 - 455	4123	Arg-90 to Lys-95, Pro-121 to Trp-129.							
HPDWO61	HPDWO61R	1949	2 - 358	4124								
HPDWO82	HPDWO82R	1950	1 - 342	4125	Ala-3 to Glu-8.	L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5,						

			S0376: 4, S0360: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, H0341: 3, S0358: 3, H0616: 3, L0766: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, S0026: 3, H0170: 2, H0556: 2, H0685: 2, H0656: 2, S0420: 2, S0444: 2, T0109: 2, H0156: 2, H0545: 2, L0471: 2, H0031: 2, H0040: 2, H0560: 2, L0065: 2, S0438: 2, L0763: 2, L0772: 2, L0764: 2, L0518: 2, L0783: 2, H0144: 2, S0374: 2, H0520: 2, H0658: 2, H0670: 2, L0753: 2, H0445: 2, S0434: 2, H0665: 2, S0194: 2, S0134: 1, S0116: 1, H0663: 1, L0481: 1, H0638: 1, H0125: 1, S0442: 1, H0351: 1, H0369: 1, H0550: 1, H0431: 1, H0331: 1, H0069: 1, S0346: 1, T0048: 1,				
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HPDWS61	HPDWS61R	1951	73 - 321	4126	Asp-15 to Val-20.	S0182: 1, S0049: 1, H0563: 1, H0081: 1, H0620: 1, H0014: 1, H0373: 1, H0083: 1, H0375: 1, H0428: 1, H0708: 1, H0634: 1, H0412: 1, H0413: 1, L0475: 1, H0386: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0646: 1, L0773: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0791: 1, L0663: 1, L0665: 1, H0691: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0651: 1, S0380: 1, S0406: 1, L0749: 1, L0780: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1 and H0506: 1.		
						H0617: 8, S0404: 8, H0484: 7, H0550: 7,		

L0758: 5, H0606: 4, H0658: 4, H0696: 4, S0276: 4, H0295: 3, S0280: 3, H0150: 3, H0188: 3, H0163: 3, L0769: 3, S0408: 2, L0622: 2, L0623: 2, T0060: 2, T0006: 2, H0181: 2, H0673: 2, H0494: 2, L0764: 2, L0775: 2, L0776: 2, L0514: 2, L0510: 2, L0511: 2, L0512: 2, L0540: 2, L0783: 2, L0809: 2, L0528: 2, H0683: 2, H0694: 2, L0744: 2, L0747: 2, S0031: 2, S6024: 1, H0294: 1, H0381: 1, H0483: 1, H0664: 1, H0662: 1, S0356: 1, S0442: 1, S0358: 1, S0376: 1, H0411: 1, S6022: 1, H0586: 1, H0333: 1, H0036: 1, H0590: 1, H0309: 1, H0044: 1, H0121: 1, H0081: 1, H0014: 1, S0388: 1, S0051: 1, H0252: 1, H0622: 1,
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							L0483: 1, H0033: 1, H0111: 1, H0032: 1, H0166: 1, S0438: 1, L0762: 1, L0504: 1, L0381: 1, L0803: 1, L0375: 1, L0376: 1, L0509: 1, L0515: 1, L0518: 1, L0782: 1, L0544: 1, L0541: 1, L0543: 1, H0693: 1, S0126: 1, H0651: 1, L0743: 1, L0751: 1, L0777: 1, L0753: 1, H0445: 1, H0667: 1, S0194: 1 and S0398: 1.			
HPDWT55	HPDWT55R	1952	3 - 503	4127	Ala-37 to Ser-42, Gly-127 to Thr-134.	L0774: 3, H0658: 3, L0803: 2, L0439: 2, H0619: 1, H0586: 1, H0309: 1, S0366: 1, L0659: 1 and S0052: 1.				
HPDWT56	HPDWT56R	1953	12 - 746	4128	Arg-4 to Gly-17, Pro-39 to Lys-46, His-96 to Arg-102.					
HPDWU47	HPDWU47R	1954	1 - 705	4129						
HPDWU55	HPDWU55R	1955	1 - 702	4130	Leu-4 to Phe-9, Gly-29 to Glu-39.	L0748: 18, L0755: 7, H0251: 6, L0777: 6, H0658: 4, L0754: 4, L0779: 4, S0360: 3, S0276: 3, H0674: 2, L0767: 2, L0766: 2,				

HPDWU60	HPDWU60R	1956	2 - 568	4131	Pro-50 to Trip-55.	L0775: 2, L0809: 2, H0689: 2, L0757: 2, S0358: 1, S0046: 1, H0013: 1, H0427: 1, H0546: 1, H0046: 1, H0123: 1, H0252: 1, H0031: 1, H0617: 1, L0769: 1, L0773: 1, L0662: 1, L0649: 1, L0774: 1, L0375: 1, L0776: 1, L0636: 1, L0783: 1, L0382: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, H0670: 1, S0328: 1, H0696: 1, S0027: 1, L0758: 1, L0759: 1 and S0434: 1.		
HPDWU60	HPDWU60R	1956	2 - 568	4131	Pro-50 to Trip-55.	L0766: 7, L0748: 6, L0771: 5, S0422: 3, H0519: 3, L0749: 3, L0756: 3, H0735: 2, H0641: 2, H0529: 2, L0659: 2, S0374: 2, L0758: 2, H0484: 1, S0442: 1, S0358: 1, S0410: 1, S0007: 1, H0632: 1, L0483: 1, H0606: 1, H0268: 1, S0150: 1, L0763: 1.		

								L0637: 1, L0764: 1, L0768: 1, L0774: 1, L0653: 1, L0809: 1, L0666: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0658: 1, S0328: 1, H0539: 1, S0406: 1, S0027: 1, L0744: 1, L0751: 1, L0754: 1, L0750: 1, L0777: 1, L0592: 1, L0608: 1, L0593: 1, H0543: 1 and H0422: 1.			
HPDWU63	HPDWU63R	1957	2 - 370	4132	Ala-51 to Tyr-56, Ala-92 to Ser-101, Ser-118 to Ile-123.						
HPFMP90	HPFMP90R	1958	38 - 163	4133	Asp-14 to Ala-19.						
								L0740: 3, L0758: 3, S0242: 3, L0598: 2, L0766: 2, L0803: 2, H0435: 2, H0648: 2, L0748: 2, L0756: 2, L0731: 2, L0757: 2, H0170: 1, S0300: 1, H0431: 1, H0046: 1, H0687: 1, S0003: 1, H0674: 1, H0616: 1, T0067: 1, UNKWN: 1, L0770: 1, L0637: 1, L0373: 1, L0765: 1, L0794: 1, L0804: 1,			

								L0775: 1, L0784: 1, L0805: 1, L0776: 1, L0666: 1, L0664: 1, L0665: 1, L0438: 1, H0689: 1, L0439: 1, L0754: 1, L0750: 1, L0759: 1 and L0480: 1.			
HPIAL09	HPIAL09R	1959	209 - 394	4134	Phe-5 to Leu-11, Ser-20 to Arg-45.						
HSAMY44	HSAMY44R	1960	3 - 182	4135	Gly-4 to Asn-9.						
HSAYW59	HSAYW59R	1961	2 - 364	4136	Pro-11 to Lys-16, Val-18 to Arg-45, Asn-56 to Glu-67.			H0255: 2, S0114: 1, L0510: 1 and S0216: 1.			
HSCPJ17	HSCPJ17R	1962	2 - 655	4137							
HSDIA22	HSDIA22R	1963	114 - 212	4138							
HSDII65	HSDII65R	1964	239 - 412	4139				L0809: 5, L0666: 4, L0747: 3, L0750: 3, L0764: 2, L0803: 2, L0774: 2, L0651: 2, L0663: 2, L0664: 2, L0748: 2, L0756: 2, L0779: 2, L0755: 2, H0669: 1, H0392: 1, H0600: 1, S0346: 1, H0494: 1, H0646: 1, L0763: 1, L0371: 1, L0372: 1, L0775: 1, L0659: 1, L0518: 1, L0788: 1, L0665: 1, S0330: 1, S0392: 1,			

							L0749: 1, L0752: 1, L0757: 1, S0260: 1, L0596: 1, L0591: 1 and L0608: 1.			
HSDIX73	HSDIX73R	1965	2 - 187	4140						
HSDJI25	HSDJI25R	1966	2 - 169	4141	Ser-20 to Ser-31.					
HSDZE12	HSDZE12R	1967	40 - 141	4142	Trp-1 to Ala-10.		AR033: 4, AR089: 3, AR096: 3, AR060: 3, AR061: 2, AR053: 2, AR055: 1, AR039: 0, AR052: 0 L0774: 3, L0752: 3, L0592: 3, H0625: 2, L0662: 2, L0747: 2, L0777: 2, H0580: 1, L0717: 1, H0455: 1, S0280: 1, H0251: 1, H0633: 1, L0773: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0653: 1, L0776: 1, L0661: 1, L0659: 1, L0526: 1, L0809: 1, L0665: 1, H0658: 1, H0696: 1, L0755: 1, L0731: 1, L0757: 1, L0759: 1 and H0352: 1.			
HSDZJ21	HSDZJ21R	1968	40 - 180	4143	Lys-18 to Lys-30.					
HSIFF84	HSIFF84R	1969	3 - 80	4144	Pro-14 to Lys-26.					
HSKJR50	HSKJR50R	1970	2 - 400	4145	Leu-117 to Trp-123.					

HSLHT27	HSLHT27R	1971	2 - 196	4146	Asn-45 to Ser-54.			
HSODB16	HSODB16R	1972	1 - 174	4147		H0596: 5, S0388: 4, H0598: 4, H0595: 4, S0412: 4, S0282: 3, S0280: 2, H0594: 2, H0366: 2, H0542: 2, H0395: 1, H0589: 1, S0356: 1, H0411: 1, H0592: 1, H0559: 1, H0427: 1, S0050: 1, H0373: 1, S0344: 1, H0436: 1, S0260: 1, S0194: 1 and H0506: 1.		
HSPSB24	HSPSB24R	1973	1 - 612	4148	Glu-77 to Arg-82, Pro-132 to Met-139.			
HSPSB70	HSPSB70R	1974	3 - 539	4149	Ile-1 to Ala-11, Asp-67 to Leu-78, Asn-81 to Ser-90, Pro-96 to Glu-110, Ala-164 to Ala-171, Gln-173 to Lys-179.			
HSPSB74	HSPSB74R	1975	1 - 162	4150	Ala-1 to Cys-21, Trp-23 to Ser-33.			
HSPSB80	HSPSB80R	1976	2 - 631	4151				
HSPSC30	HSPSC30R	1977	1 - 342	4152	Leu-43 to Thr-58.			
HSPSE86	HSPSE86R	1978	3 - 293	4153	Ser-41 to Ile-50, Gln-55 to Glu-65, Cys-69 to Asp-78.	L0755: 5, L0748: 4, H0616: 3, L0769: 3, L0752: 3, L0731: 3, L0757: 3, S0356: 2, S0408: 2, S0046: 2,		

L0770: 2, L0771: 2, L0776: 2, L0526: 2, L0747: 2, L0750: 2, L0756: 2, L0758: 2, L0759: 2, L0588: 2, H0170: 1, L0459: 1, H0484: 1, S0358: 1, S0360: 1, H0637: 1, S0045: 1, S0132: 1, H0393: 1, S0278: 1, T0039: 1, H0427: 1, H0318: 1, S0049: 1, H0009: 1, H0081: 1, T0003: 1, H0051: 1, H0083: 1, S0003: 1, H0622: 1, H0708: 1, H0316: 1, H0038: 1, H0063: 1, H0412: 1, S0038: 1, S0150: 1, H0529: 1, L0762: 1, L0763: 1, L0646: 1, L0644: 1, L0768: 1, L0766: 1, L0774: 1, L0775: 1, L0661: 1, L0657: 1, L0782: 1, L0788: 1, L0666: 1, L0665: 1, H0683: 1, H0660: 1, S0378: 1, S0406: 1, L0777: 1, H0445: 1 and H0542: 1.
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HSPSG03	HSPSG03R	1979	3 - 191	4154	Leu-41 to Asp-48.	H0124: 19, H0052: 10, L0751: 7, L0747: 7, H0255: 6, H0441: 6, H0556: 5, S0222: 5, H0265: 4, S0360: 4, H0620: 4, L0655: 4, H0144: 4, L0439: 4, L0596: 4, L0601: 4, S0132: 3, H0575: 3, H0123: 3, H0012: 3, H0024: 3, H0617: 3, H0087: 3, H0529: 3, L0764: 3, L0662: 3, L0766: 3, L0663: 3, L0565: 3, L0438: 3, H0660: 3, L0743: 3, L0740: 3, H0445: 3, H0218: 2, H0585: 2, S0418: 2, S0444: 2, S0408: 2, H0208: 2, S0278: 2, H0261: 2, H0333: 2, H0706: 2, H0581: 2, S0049: 2, H0009: 2, L0471: 2, S0051: 2, T0010: 2, H0083: 2, H0594: 2, T0006: 2, H0628: 2, H0038: 2, S0440: 2, S0142: 2, S0344: 2, L5565: 2, L5566: 2,		
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S6028: 1, H0271: 1, H0687: 1, S0022: 1, H0252: 1, H0615: 1, H0039: 1, H0033: 1, H0604: 1, H0424: 1, H0213: 1, L0055: 1, H0674: 1, H0068: 1, H0135: 1, H0040: 1, H0551: 1, H0412: 1, H0059: 1, H0100: 1, L0351: 1, L0435: 1, H0494: 1, S0306: 1, S0150: 1, H0647: 1, S0210: 1, S0002: 1, L0369: 1, L0762: 1, L0640: 1, L0371: 1, L0770: 1, L0769: 1, L0638: 1, L0637: 1, L5575: 1, L0772: 1, L0646: 1, L0641: 1, L0374: 1, L0648: 1, L0767: 1, L0768: 1, L0774: 1, L0653: 1, L0493: 1, L0559: 1, L0635: 1, L0783: 1, L0519: 1, L0545: 1, L0541: 1, L0543: 1, L0788: 1, L4559: 1, S0053: 1, L0352: 1, H0520: 1, H0547: 1,						
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HSPSG13	HSPSG13R	1980	2 - 784	4155			H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1, H0008: 1 and H0293: 1.		
HSPSG42	HSPSG42R	1981	3 - 596	4156		Glu-6 to Thr-11, His-31 to Asn-36, Thr-68 to Ile-76, Met-80 to Arg-89, Glu-123 to Gln-132, Arg-140 to Leu-147.			
HSPSG50	HSPSG50R	1982	123 - 608	4157		Glu-1 to Ile-6.			
HSPSG89	HSPSG89R	1983	94 - 651	4158		Pro-36 to Lys-44, Ile-46 to Ser-52, Val-82 to Gln-89, Gly-99 to Ala-104, Tyr-165 to Leu-171.			
HSPSH39	HSPSH39R	1984	11 - 793	4159					
HSPSH41	HSPSH41R	1985	3 - 431	4160					
HSPSH49	HSPSH49R	1986	3 - 539	4161					
HSPSI65	HSPSI65R	1987	3 - 734	4162		Asp-7 to Lys-15, His-142 to Glu-156,			

HSPSJ71	HSPSJ71R	1988	2 - 310	4163	Glu-181 to Phe-190.	H0124: 19, H0052: 10, L0751: 7, L0747: 7, H0255: 6, H0441: 6, H0556: 5, S0222: 5, H0265: 4, S0360: 4, H0620: 4, L0655: 4, H0144: 4, L0439: 4, L0596: 4, L0601: 4, S0132: 3, H0575: 3, H0123: 3, H0012: 3, H0024: 3, H0617: 3, H0087: 3, H0529: 3, L0764: 3, L0662: 3, L0766: 3, L0663: 3, L0565: 3, L0438: 3, H0660: 3, L0743: 3, L0740: 3, H0445: 3, H0218: 2, H0585: 2, S0418: 2, S0444: 2, S0408: 2, H0208: 2, S0278: 2, H0261: 2, H0333: 2, H0706: 2, H0581: 2, S0049: 2, H0009: 2, L0471: 2, S0051: 2, T0010: 2, H0083: 2, H0594: 2, T0006: 2, H0628: 2, H0038: 2, S0440: 2, S0142: 2, S0344: 2,		
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	H0051: 1, H0071: 1, S6028: 1, H0271: 1, H0687: 1, S0022: 1, H0252: 1, H0615: 1, H0039: 1, H0033: 1, H0604: 1, H0424: 1, H0213: 1, L0055: 1, H0674: 1, H0068: 1, H0135: 1, H0040: 1, H0551: 1, H0412: 1, H0059: 1, H0100: 1, L0351: 1, L0435: 1, H0494: 1, S0306: 1, S0150: 1, H0647: 1, S0210: 1, S0002: 1, L0369: 1, L0762: 1, L0640: 1, L0371: 1, L0770: 1, L0769: 1, L0638: 1, L0637: 1, L5575: 1, L0772: 1, L0646: 1, L0641: 1, L0374: 1, L0648: 1, L0767: 1, L0768: 1, L0774: 1, L0653: 1, L0493: 1, L0559: 1, L0635: 1, L0783: 1, L0519: 1, L0545: 1, L0541: 1, L0543: 1, L0788: 1, L4559: 1, S0053: 1, L0352: 1,					
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HSPSJ72	HSPSJ72R	1989	1 - 444	4164			H0520: 1, H0547: 1, H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1, H0008: 1 and H0293: 1.		
							H0617: 14, L0665: 14, L0657: 11, H0682: 11, H0521: 10, S0360: 8, H0423: 7, H0657: 5, H0620: 5, H0687: 5, L0664: 5, H0547: 5, S0406: 5, S0376: 4, H0059: 4, H0641: 4, S0422: 4, L0648: 4, L0768: 4, H0658: 4, H0670: 4, H0666: 4, H0522: 4, H0584: 3, H0713: 3, H0716: 3, H0341: 3, H0638: 3, H0618: 3, H0039: 3, H0087: 3, H0509: 3, L0662: 3, L0775: 3, L0659: 3, H0689: 3,		

H0435: 3, S0328: 3, H0445: 3, S0434: 3, L0581: 3, L0361: 3, H0585: 2, H0717: 2, T0049: 2, H0730: 2, S0476: 2, S0278: 2, H0550: 2, H0586: 2, H0559: 2, H0486: 2, H0575: 2, H0253: 2, H0581: 2, H0622: 2, H0606: 2, H0625: 2, H0649: 2, L0667: 2, L0382: 2, H0684: 2, L0743: 2, L0751: 2, L0599: 2, S0026: 2, H0543: 2, S0424: 2, H0171: 1, H0556: 1, S0040: 1, H0740: 1, H0650: 1, H0254: 1, H0255: 1, H0661: 1, H0663: 1, H0664: 1, H0125: 1, S0356: 1, S0442: 1, S0354: 1, S0358: 1, S0408: 1, H0722: 1, S0132: 1, S6026: 1, H0587: 1, L0623: 1, H0250: 1, L0021: 1, H0599: 1, T0082: 1, H0318: 1, H0327: 1, H0530: 1,	
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								H0542: 1, H0422: 1, S0456: 1 and H0352: 1.			
HSPSQ22	HSPSQ22R	1990	1 - 339	4165			Pro-6 to Gly-13, Pro-23 to Lys-32, Lys-94 to Ala-112.				
HSPSQ57	HSPSQ57R	1991	1 - 327	4166			Glu-17 to Asp-32.				
HSPSY67	HSPSY67R	1992	2 - 442	4167				H0683: 242, S0358: 3, L0745: 3, H0656: 2, H0484: 2, S0354: 2, H0370: 2, H0427: 2, T0010: 2, H0039: 2, H0521: 2, S0001: 1, H0619: 1, H0592: 1, H0042: 1, H0618: 1, H0327: 1, H0024: 1, H0266: 1, H0288: 1, H0135: 1, H0551: 1, H0623: 1, H0130: 1, S0210: 1, L0774: 1, L0654: 1, L0438: 1, H0593: 1, H0539: 1, L0439: 1, H0707: 1, H0422: 1 and H0293: 1.			
HSPSZ69	HSPSZ69R	1993	2 - 406	4168							
HSPTA57	HSPTA57R	1994	244 - 438	4169							
HSPTN57	HSPTN57R	1995	2 - 61	4170			Ala-1 to Lys-9, Val-11 to Trp-17.				
HSSDM17	HSSDM17R	1996	46 - 210	4171							
HSWBF04	HSWBF04R	1997	36 - 302	4172			Ser-1 to Thr-8,				

HSWBP42	HSWBP42R	1998	188 - 364	4173	Glu-17 to Ala-32, Arg-39 to Trp-47.			
HSXEM65	HSXEM65R	1999	84 - 308	4174	Met-9 to Arg-14, Leu-23 to Lys-29, Lys-50 to Asn-56. Ser-7 to Gly-12, Pro-23 to Pro-40, Ala-49 to Val-54.	L0803: 10, L0794: 4, L0779: 4, L0789: 2, H0648: 2, S0442: 1, S0045: 1, S0036: 1, L0520: 1, L0763: 1, L0769: 1, L0800: 1, L0644: 1, L0764: 1, L0773: 1, L0767: 1, L0804: 1, L0774: 1, L0805: 1, L0517: 1, H0659: 1, L0777: 1 and L0758: 1.		
HTGAR42	HTGAR42R	2000	136 - 297	4175	Ser-4 to Thr-10, Leu-42 to Pro-51.	H0615: 2 and S0134: 1.		
HTLCU84	HTLCU84R	2001	131 - 406	4176	Asp-55 to Val-63, Cys-80 to Arg-92.			
HTSHG06	HTSHG06R	2002	107 - 295	4177				
HTTDP76	HTTDP76R	2003	169 - 423	4178	Pro-8 to Trp-14, Arg-20 to Ser-27, Glu-52 to Glu-60.			
HUFCQ37	HUFCQ37R	2004	94 - 366	4179	Pro-26 to Gly-39, Pro-68 to Arg-75.	L0439: 15, H0052: 11, S0007: 9, L0438: 6, L0731: 6, L0779: 5, L0754: 4, H0550: 3, L0769: 3, S0126: 3.		

	L0743: 3, H0194: 2, H0687: 2, H0623: 2, L0768: 2, L0776: 2, L0659: 2, L0666: 2, L0663: 2, H0689: 2, S0330: 2, L0748: 2, L0786: 2, L0777: 2, L0752: 2, L0758: 2, L0608: 2, H0352: 2, H0662: 1, S0356: 1, S0354: 1, S0444: 1, S0045: 1, S0476: 1, H0441: 1, H0431: 1, H0333: 1, H0642: 1, H0575: 1, H0590: 1, T0048: 1, H0150: 1, H0024: 1, S0050: 1, S0388: 1, H0252: 1, H0039: 1, H0135: 1, H0038: 1, H0264: 1, H0494: 1, L0770: 1, L0372: 1, L0646: 1, L0521: 1, L0794: 1, L0803: 1, L0775: 1, L0653: 1, L0657: 1, L0809: 1, L0792: 1, L0664: 1, H0144: 1, L0352: 1, H0519: 1, H0593: 1, H0658: 1, H0672: 1, H0539: 1,	
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HULAP70	HULAP70R	2005	2 - 349	4180		Arg-8 to Arg-28.						
HUSGA11	HUSGA11R	2006	19 - 390	4181		Arg-11 to Arg-18, Ser-42 to Arg-52, Met-62 to Pro-73, Pro-102 to Gly-115.						
HUSIL88	HUSIL88R	2007	187 - 288	4182								
HUUCH08	HUUCH08R A	2008	351 - 620	4183								
HUVFA39	HUVFA39R	2009	1 - 462	4184		Arg-2 to Gly-12, Arg-28 to Gly-41, Gly-48 to Val-68, Lys-94 to Arg-118.						
HVCAA31	HVCAA31R	2010	94 - 618	4185		Met-4 to Thr-22, Asp-45 to Gly-50, Gly-65 to Asp-70, Lys-96 to Asp-104, Ile-121 to Leu-126, Met-133 to Glu-144, Ala-149 to Asn-156.						
HVCAA37	HVCAA37R	2011	208 - 717	4186		Ile-36 to Glu-41, Glu-55 to Lys-63, Lys-68 to Gln-81, Pro-84 to Lys-90, Pro-108 to Ser-119.						
HVCAA68	HVCAA68R	2012	2 - 373	4187		Pro-22 to Pro-28, Glu-109 to Arg-118.						

HVCAA94	HVCAA94R	2013	1 - 462	4188						
HVCAB02	HVCAB02R	2014	2 - 649	4189				H0666: 696, H0660: 11, L0666: 7, H0617: 4, L0664: 4, H0549: 3, H0620: 3, H0181: 3, H0593: 3, H0684: 3, H0484: 2, H0619: 2, H0051: 2, H0606: 2, H0670: 2, L0748: 2, L0439: 2, S0040: 1, H0483: 1, H0255: 1, H0662: 1, S0007: 1, H0486: 1, H0052: 1, H0597: 1, H0046: 1, H0009: 1, H0012: 1, H0059: 1, T0041: 1, H0517: 1, L0770: 1, L0764: 1, L0803: 1, L0783: 1, L0809: 1, H0435: 1, H0658: 1, H0539: 1, H0521: 1, H0696: 1 and S0434: 1.		
HVCAB03	HVCAB03R	2015	353 - 664	4190	Arg-1 to Gln-18, Asp-52 to Leu-57, Asp-67 to Lys-74, Asp-85 to Ala-92.					
HVCAB18	HVCAB18R	2016	3 - 758	4191						
HVCAB44	HVCAB44R	2017	3 - 224	4192				L0769: 7, L0747: 7, L0777: 7, L0752: 7, L0665: 6, L0770: 5,		

	L0766: 5, L0779: 5, L0771: 4, L0666: 4, L0439: 4, L0751: 4, H0052: 3, H0135: 3, L0762: 3, L0775: 3, L0806: 3, L0809: 3, L0647: 3, S0404: 3, L0743: 3, L0749: 3, L0731: 3, S0360: 2, H0083: 2, H0412: 2, L0761: 2, L0764: 2, L0662: 2, L0653: 2, L0783: 2, L0532: 2, L0664: 2, L0748: 2, L0750: 2, L0758: 2, L0759: 2, H0543: 2, H0265: 1, S0218: 1, H0657: 1, H0254: 1, H0661: 1, H0402: 1, S0354: 1, S0046: 1, H0619: 1, S6026: 1, L0717: 1, H0409: 1, H0587: 1, H0486: 1, H0013: 1, H0069: 1, H0156: 1, H0599: 1, L0022: 1, H0575: 1, H0597: 1, H0544: 1, H0546: 1, H0150: 1, H0057: 1, H0014: 1, S0003: 1, H0252: 1.				
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HVCAB52	HVCAB52R	2018	4 - 612	4193			H0615: 1, H0030: 1, H0644: 1, H0617: 1, S0364: 1, H0316: 1, H0598: 1, S0036: 1, H0063: 1, H0646: 1, S0426: 1, L0369: 1, L0772: 1, L0773: 1, L0767: 1, L0774: 1, L0375: 1, L0378: 1, L0655: 1, L0656: 1, L0790: 1, L0663: 1, H0520: 1, H0689: 1, H0670: 1, H0660: 1, H0666: 1, S0152: 1, H0521: 1, H0436: 1, S0206: 1, L0744: 1, L0786: 1, L0755: 1, L0587: 1, L0362: 1, H0422: 1, S0456: 1 and L0600: 1.		
HVCAB57	HVCAB57R	2019	1 - 357	4194					
HVCAB88	HVCAB88R	2020	83 - 739	4195	Lys-6 to Thr-11, Gly-22 to Phe-30, Leu-40 to Gly-53, Arg-56 to Lys-64, Lys-93 to Leu-101, Met-176 to Leu-181.				
HVCAC42	HVCAC42R	2021	319 - 417	4196	Arg-7 to Asp-13.				
HVCAD52	HVCAD52R	2022	1 - 369	4197					

HVCAE01	HVCAE01R	2023	49 - 663	4198	Tyr-44 to Asp-49, Pro-132 to Leu-139, Cys-168 to His-174.			
HVCAE15	HVCAE15R	2024	3 - 605	4199	Pro-49 to Val-58, Gln-60 to Gln-78, Arg-85 to His-99, Phe-122 to Asp-128, Arg-157 to Arg-163, Leu-178 to Thr-193.			
HVCAE22	HVCAE22R	2025	2 - 493	4200	Gly-19 to Ala-24, Asn-32 to Val-38.	S0358: 7, H0659: 7, H0542: 7, H0543: 6, L0666: 5, L0747: 5, S0418: 4, H0494: 4, L0657: 4, L0517: 4, S0374: 4, L0731: 4, L0596: 4, H0341: 3, H0385: 3, S0346: 3, H0553: 3, S0144: 3, S0210: 3, L0764: 3, L0659: 3, L0663: 3, L0664: 3, H0521: 3, L0754: 3, L0779: 3, L0752: 3, L0755: 3, H0445: 3, H0422: 3, T0049: 2, S0116: 2, S0212: 2, S0282: 2, S0376: 2, S0360: 2, S0045: 2, H0486: 2, H0250: 2, H0427: 2, H0581: 2, H0251: 2,		

					H0545: 2, H0083: 2, H0510: 2, H0412: 2, S0422: 2, L0769: 2, L0637: 2, L0646: 2, L0651: 2, H0144: 2, H0519: 2, H0660: 2, S0380: 2, L0740: 2, L0608: 2, L0603: 2, H0668: 2, H0667: 2, S0412: 2, H0265: 1, T0002: 1, S0402: 1, S6024: 1, H0657: 1, H0656: 1, H0663: 1, H0638: 1, H0580: 1, H0208: 1, S0046: 1, L0717: 1, S0278: 1, H0370: 1, H0586: 1, H0497: 1, H0574: 1, T0109: 1, H0156: 1, H0575: 1, H0590: 1, H0318: 1, S0049: 1, H0544: 1, H0572: 1, H0123: 1, L0471: 1, H0024: 1, H0373: 1, L0163: 1, S0388: 1, H0355: 1, H0375: 1, S6028: 1, H0267: 1, H0687: 1, S0312: 1, S0250: 1, S0003: 1, H0316: 1, H0598: 1,
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HVCAE56	HVCAE56R	2026	75 - 572	4201	Asn-20 to Gln-27.				
HVCAG56	HVCAG56R	2027	3 - 551	4202	Arg-92 to Arg-101, Lys-134 to Asn-140, Ser-149 to Thr-159, Glv-166 to Ile-175.				

HVCAG86	HVCAG86R	2028	150 - 509	4203	Arg-6 to Pro-21.	H0620: 16, L0747: 12, H0599: 11, L0758: 9, S0358: 8, L0751: 7, L0754: 7, L0596: 7, H0556: 6, H0393: 5, H0706: 5, H0052: 5, H0616: 5, H0529: 5, L0774: 5, L0776: 5, H0483: 4, S0442: 4, H0253: 4, H0012: 4, H0083: 4, S0150: 4, L0662: 4, H0670: 4, H0521: 4, L0748: 4, L0581: 4, H0543: 4, H0341: 3, S0376: 3, H0580: 3, S0007: 3, S0280: 3, H0036: 3, H0618: 3, H0581: 3, H0309: 3, H0510: 3, H0428: 3, H0040: 3, H0087: 3, L0764: 3, L0775: 3, L0655: 3, L0666: 3, L0663: 3, L0664: 3, H0547: 3, L0749: 3, L0750: 3, L0595: 3, H0657: 2, H0656: 2, S0116: 2, H0638: 2, S0356: 2, S0360: 2, S0046: 2,		
HVCAH03	HVCAH03R	2029	3 - 689	4204				

	H0411: 2, H0550: 2, S6014: 2, H0370: 2, H0574: 2, L0622: 2, L0623: 2, H0042: 2, S0182: 2, H0318: 2, H0085: 2, H0373: 2, H0275: 2, H0188: 2, H0030: 2, H0169: 2, H0124: 2, H0135: 2, H0038: 2, H0100: 2, T0042: 2, H0494: 2, H0625: 2, H0509: 2, H0132: 2, H0130: 2, H0538: 2, L0800: 2, L0768: 2, L0381: 2, L0784: 2, L0378: 2, L0653: 2, L0659: 2, L0809: 2, H0651: 2, H0696: 2, H0134: 2, S3014: 2, S0027: 2, L0743: 2, L0744: 2, L0740: 2, L0731: 2, S0031: 2, L0604: 2, H0423: 2, H0352: 2, H0265: 1, T0002: 1, S0134: 1, H0583: 1, H0484: 1, H0661: 1, L0005: 1, S0408: 1, S0045: 1, H0619: 1, H0645: 1, H0351: 1,					
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	H0369: 1, H0549: 1, T0104: 1, H0592: 1, H0587: 1, H0333: 1, H0643: 1, H0331: 1, H0632: 1, H0270: 1, H0101: 1, H0013: 1, H0575: 1, S0010: 1, H0196: 1, H0263: 1, T0115: 1, H0597: 1, H0530: 1, H0545: 1, H0009: 1, H0571: 1, H0081: 1, H0050: 1, H0024: 1, H0095: 1, L0163: 1, H0051: 1, S0388: 1, H0107: 1, H0375: 1, H0266: 1, S0334: 1, H0288: 1, H0286: 1, H0252: 1, H0039: 1, H0424: 1, H0213: 1, H0181: 1, H0673: 1, H0674: 1, S0364: 1, H0708: 1, S0366: 1, S0036: 1, H0591: 1, H0551: 1, H0488: 1, H0412: 1, H0413: 1, H0623: 1, T0041: 1, L0475: 1, H0560: 1, H0561: 1, S0306: 1, H0714: 1, H0641: 1, H0633: 1,	
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HVCAI08	HVCAI08R	2032	67 - 453	4207	Pro-6 to Arg-13, Met-34 to Asp-41, Lys-65 to Thr-74.	L0748: 28, L0754: 27, L0740: 15, H0056: 13, L0750: 13, S0007: 12, L0757: 12, S0126: 11, S0222: 10, L0731: 10, S0360: 9, H0144: 9, S0358: 8, H0009: 8, L0005: 7, S0010: 7, H0266: 7, L0742: 7, L0752: 7, H0547: 6, S0408: 5, S0046: 5, L0471: 5, S0003: 5, S0028: 5, L0758: 5, L0362: 5, S0026: 5, H0294: 4, H0341: 4, H0638: 4, S0045: 4, H0327: 4, H0039: 4, H0031: 4, H0413: 4, S0210: 4, L0769: 4, L0662: 4, L0775: 4, L0776: 4, L0809: 4, H0689: 4, S014: 4, S0206: 4, L0747: 4, H0445: 4, L0608: 4, H0661: 3, S0376: 3, S0278: 3, H0369: 3, H0441: 3, H0575: 3, S0049: 3, S0388: 3, S0036: 3, H0616: 3, H0100: 3, H0494: 3,		
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					S0440: 3, L0520: 3, L0764: 3, S0374: 3, H0682: 3, H0659: 3, H0672: 3, S0027: 3, L0439: 3, S0192: 3, H0624: 2, H0170: 2, T0002: 2, H0716: 2, S0282: 2, H0305: 2, S0420: 2, L0103: 2, H0592: 2, H0586: 2, T0039: 2, T0109: 2, H0013: 2, S0346: 2, T0048: 2, H0318: 2, S0474: 2, H0251: 2, H0597: 2, H0150: 2, H0178: 2, H0569: 2, H0081: 2, H0024: 2, S0051: 2, H0615: 2, H0428: 2, H0644: 2, H0708: 2, H0090: 2, H0412: 2, H0059: 2, H0633: 2, S0142: 2, S0422: 2, L0772: 2, L0646: 2, L0768: 2, L0806: 2, L0782: 2, H0684: 2, S0328: 2, S0378: 2, S0380: 2, H0522: 2, H0134: 2, S0406: 2, S3012: 2, L0751: 2, L0755: 2,
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1414

	H0617: 1, L0055: 1, H0166: 1, H0135: 1, H0163: 1, H0591: 1, H0038: 1, S0112: 1, L0564: 1, T0041: 1, T0042: 1, S0014: 1, S0438: 1, H0509: 1, H0641: 1, H0529: 1, L0762: 1, L4747: 1, L0372: 1, L0553: 1, L0771: 1, L0773: 1, L0521: 1, L0767: 1, L0766: 1, L5569: 1, L5574: 1, L0381: 1, L0650: 1, L0774: 1, L0376: 1, L0653: 1, L0527: 1, L0657: 1, L0518: 1, L0783: 1, L0545: 1, L0532: 1, L0666: 1, L0663: 1, S0216: 1, H0520: 1, H0593: 1, H0711: 1, H0690: 1, H0670: 1, H0660: 1, H0666: 1, H0539: 1, S0152: 1, S0332: 1, H0521: 1, H0704: 1, S0044: 1, S0146: 1, S0404: 1, L0749: 1, S0260: 1, H0444: 1, S0434: 1,					
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HVCAI24	HVCAI24R	2033	108 - 365	4208	Asn-1 to Lys-6.	L0596: 1, L0588: 1, L0599: 1, L0366: 1, S0011: 1, H0668: 1, H0216: 1, S0242: 1, S0196: 1, H0542: 1, H0543: 1, L0697: 1, L0698: 1, S0398: 1, S0424: 1, S3020: 1 and S0460: 1.		
HVCAI79	HVCAI79R	2034	2 - 508	4209				
HVCAJ27	HVCAJ27R	2035	1 - 537	4210		S0408: 5, L0809: 5, L0800: 4, L0804: 4, H0647: 3, L0803: 3, L0775: 3, L0805: 3, S0126: 3, L0751: 3, S0360: 2, S0278: 2, H0409: 2, H0424: 2, H0617: 2, H0494: 2, L0783: 2, H0670: 2, L0747: 2, L0777: 2, L0731: 2, L0601: 2, H0556: 1, H0295: 1, S0116: 1, H0341: 1, S0442: 1, S0358: 1, S0376: 1, H0370: 1, H0042: 1, H0575: 1, S0049: 1, H0150: 1, H0163: 1, S0294: 1, S0438: 1, H0633: 1.		

HVCAJ81	HVCAJ81R	2036	1 - 477	4211	Lys-61 to Gln-73, Gln-81 to Ser-97.	H0529: 1, L0769: 1, L0374: 1, L0764: 1, L0560: 1, L0774: 1, L0376: 1, L0629: 1, L0807: 1, L0657: 1, L0659: 1, L0791: 1, L0666: 1, H0682: 1, H0683: 1, H0658: 1, H0666: 1, S0328: 1, H0539: 1, H0555: 1, H0436: 1, S012: 1, L0779: 1, L0752: 1, L0757: 1, L0758: 1, L0759: 1, H0667: 1 and H0423: 1.		
HVCAJ95	HVCAJ95R	2037	1 - 210	4212	Arg-14 to Gly-41, Arg-47 to Glu-53, Gln-56 to Lys-70.			
HVCAK02	HVCAK02R	2038	3 - 467	4213	Glu-1 to Lys-9.			
HVCAL06	HVCAL06R	2039	3 - 383	4214				
HVCAO17	HVCAO17R	2040	1 - 516	4215		H0009: 3, H0135: 3, H0494: 3, H0265: 2, H0341: 2, H0484: 2, S0046: 2, S0222: 2, H0266: 2, S0144: 2, H0658: 2, L0742: 2, H0542: 2, H0423: 2, H0171: 1, T0002: 1.		

							H0685: 1, S0040: 1, H0295: 1, S0420: 1, S0356: 1, S0360: 1, H0392: 1, H0586: 1, T0109: 1, H0427: 1, H0599: 1, H0618: 1, H0318: 1, H0597: 1, H0544: 1, H0012: 1, H0024: 1, H0014: 1, S0022: 1, H0428: 1, H0535: 1, H0068: 1, H0090: 1, H0040: 1, H0063: 1, H0264: 1, H0413: 1, T0042: 1, H0560: 1, H0633: 1, S0142: 1, S0422: 1, H0529: 1, H0519: 1, S0126: 1, H0684: 1, H0666: 1, H0672: 1, H0134: 1, H0214: 1, H0631: 1, S0027: 1, S0028: 1, L0753: 1, L0757: 1, L0599: 1, L0608: 1, L0594: 1, S0026: 1, H0667: 1, H0136: 1, S0276: 1 and H0543: 1.		
HVCAO63	HVCAO63R	2041	10 - 306	4216	Pro-56 to Thr-65.				
HVCAP89	HVCAP89R	2042	3 - 407	4217					
HVCAO53	HVCAO53R	2043	28 - 480	4218	Val-105 to Ile-113.				

HVCAQ84	HVCAQ84R	2044	193 - 402	4219	Asp-128 to Phe-137, Arg-145 to Arg-151.
HVCAR87	HVCAR87R	2045	3 - 455	4220	Asp-15 to Thr-23.
HVCAS08	HVCAS08R	2046	2 - 715	4221	
HVCAS52	HVCAS52R	2047	1 - 687	4222	L0777: 12, H0341: 6, S0440: 6, S0126: 6, S0358: 5, H0250: 5, H0428: 5, H0031: 5, H0090: 5, L0747: 5, L0731: 5, H0542: 5, S0422: 4, H0547: 4, L0748: 4, L0749: 4, L0759: 4, H0624: 3, H0580: 3, H0486: 3, S0003: 3, S0214: 3, H0494: 3, L0770: 3, L0764: 3, L0758: 3, L0599: 3, S0026: 3, H0543: 3, H0170: 2, H0657: 2, H0656: 2, S0420: 2, S0442: 2, S0444: 2, S0010: 2, H0318: 2, H0581: 2, H0046: 2, H0014: 2, H0083: 2, L0483: 2, H0040: 2, H0551: 2, L0769: 2, L0773: 2, L0766: 2, L0774: 2, L0659: 2, H0144: 2,

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HVCAS57	HVCAS57R	2048	114 - 257	4223				H0413: 1, H0100: 1, T0042: 1, H0560: 1, H0625: 1, H0561: 1, S0150: 1, H0633: 1, H0652: 1, L0763: 1, L0371: 1, L0638: 1, L0667: 1, L0648: 1, L0521: 1, L0662: 1, L0649: 1, L0803: 1, L0776: 1, L0783: 1, L0383: 1, L0647: 1, L0664: 1, L0665: 1, H0520: 1, H0689: 1, H0414: 1, H0658: 1, H0670: 1, H0660: 1, H0710: 1, S0152: 1, S0332: 1, S0454: 1, H0522: 1, H0704: 1, H0214: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, S0206: 1, L0740: 1, L0750: 1, S0434: 1, L0581: 1, H0653: 1, H0667: 1, S0242: 1, S0194: 1, H0422: 1 and S0424: 1. L0748: 6, L0439: 6, L0731: 6, H0663: 4, S0354: 4, H0038: 3, S0150: 3, L0666: 3.
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HVCAU64	HVCAU64R	2049	3 - 404	4224				Arg-7 to Val-15.				
HVCBD18	HVCBD18R	2050	190 - 309	4225				Val-3 to Lys-9, Leu-32 to Gln-40.				
HVCBE76	HVCBE76R	2051	3 - 431	4226								
HVCBE79	HVCBE79R	2052	3 - 524	4227								
HVCBF38	HVCBF38R	2053	3 - 251	4228								
HVCBF89	HVCBF89R	2054	2 - 361	4229					AR039: 419, AR096: 339, AR053: 225, AR052: 212, AR104: 168, AR089: 168, AR060: 114, AR033: 108, AR055: 99, AR061: 74			
HVCBG01	HVCBG01R	2055	22 - 318	4230				Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52.				
HVCBQ31	HVCBQ31R	2056	2 - 448	4231								
HVCCA08	HVCCA08R	2057	2 - 298	4232								
HVCCK34	HVCCK34R	2058	34 - 699	4233								
HVCCR91	HVCCR91R	2059	1 - 156	4234								
HVCCV93	HVCCV93R	2060	203 - 469	4235				Ser-25 to Asn-31, Asp-38 to Val-48, Ser-57 to Gly-63.				
HVCDA75	HVCDA75R	2061	1 - 315	4236								
HVCDD19	HVCDD19R	2062	31 - 459	4237				Pro-1 to Ser-7, Val-22 to Asn-29,				

HVCDF50	HVCDF50R	2063	3 - 353	4238	Pro-45 to Pro-51, Arg-59 to Val-64, Val-92 to Lys-98.
HVCDH77	HVCDH77R	2064	2 - 679	4239	Ser-56 to Phe-69, Arg-113 to Thr-123, Leu-128 to Ser-135, Lys-148 to Ala-156, Gly-166 to Ser-171, Glu-188 to Leu-194, Ala-211 to Gly-222. H0666: 8, S0144: 6, L0747: 5, H0545: 4, L0769: 4, L0766: 4, L0731: 4, H0341: 3, L0764: 3, L0794: 3, L0750: 3, L0755: 3, L0758: 3, S0045: 2, H0257: 2, H0581: 2, H0546: 2, H0135: 2, L0803: 2, L0657: 2, L0789: 2, L0666: 2, S0044: 2, H0445: 2, L0588: 2, L0594: 2, L0601: 2, H0543: 2, S0040: 1, H0295: 1, H0583: 1, S0116: 1, S0212: 1, H0661: 1, H0664: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1, H0592: 1, H0586: 1, H0559: 1, H0575: 1, S0182: 1, H0620: 1, S0388: 1, H0083: 1, S0312: 1,

									H0617: 1, H0169: 1, H0708: 1, H0163: 1, H0551: 1, H0488: 1, T0069: 1, H0102: 1, H0100: 1, H0494: 1, L0475: 1, H0646: 1, S0142: 1, S0002: 1, L0762: 1, L0796: 1, L0646: 1, L0800: 1, L0645: 1, L0771: 1, L0662: 1, L0768: 1, L0386: 1, L0651: 1, L0783: 1, L0790: 1, L0791: 1, L0663: 1, H0144: 1, L0438: 1, H0519: 1, H0134: 1, S3014: 1, L0740: 1, L0779: 1, L0757: 1, S0031: 1, L0592: 1, H0665: 1, S0276: 1 and H0422: 1.		
HVVAB25	HVVAB25R	2065	3 - 155	4240							
HVVAB37	HVVAB37R	2066	74 - 619	4241							
HVVAC18	HVVAC18R	2067	56 - 238	4242							
HVVAD74	HVVAD74R	2068	403 - 570	4243			L0766: 12, S0412: 8, S0422: 4, L0756: 4, H0341: 3, H0638: 3, L0770: 3, L0666: 3, L0777: 3, S0360: 2, H0318: 2 H0327: 2				

L0803: 2, H0670: 2, L0740: 2, L0731: 2, S0260: 2, S0436: 2, H0170: 1, H0125: 1, S0418: 1, S0444: 1, H0489: 1, H0580: 1, H0734: 1, S0222: 1, H0587: 1, H0497: 1, H0013: 1, H0075: 1, H0427: 1, H0046: 1, H0354: 1, L0142: 1, L0055: 1, H0090: 1, H0412: 1, S0440: 1, H0647: 1, H0529: 1, L0369: 1, L0371: 1, L0772: 1, L0646: 1, L0771: 1, L0649: 1, L0381: 1, L0650: 1, L0774: 1, L0653: 1, L0655: 1, L0606: 1, L0790: 1, L0532: 1, L0663: 1, L0664: 1, S0374: 1, H0593: 1, H0711: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, L0593: 1, S0242: 1, H0423: 1 and H0721: 1.						
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HVVAE73	HVVAE73R	2069	96 - 347	4244	Glu-21 to Ile-26.			
HVVAE88	HVVAE88R	2070	157 - 381	4245	Ser-1 to Asp-9, Lys-26 to Gln-36.	H0672: 2, L0748: 2, H0156: 1 and H0494: 1.		
HVVAH91	HVVAH91R	2071	3 - 245	4246		L0747: 5, L0731: 4, L0742: 3, L0745: 3, L0769: 2, L0766: 2, L0774: 2, L0597: 2, L0604: 2, T0049: 1, S0358: 1, H0549: 1, H0486: 1, T0040: 1, S0280: 1, H0318: 1, H0263: 1, H0551: 1, H0633: 1, H0529: 1, L0640: 1, L0763: 1, L0771: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0517: 1, L0666: 1, L0663: 1, H0648: 1, H0672: 1, H0521: 1, L0749: 1, L0750: 1, L0779: 1, L0780: 1 and L0592: 1.		
HVVAI03	HVVAI03R	2072	2 - 307	4247				
HVVAJ23	HVVAJ23R	2073	3 - 527	4248	Gln-33 to Ala-38, Thr-47 to Asn-64, Pro-117 to Leu-122, Thr-160 to Gly-171.			
HVVAJ28	HVVAJ28R	2074	1 - 327	4249	His-1 to Trp-6, Gly-28 to Asp-34, Arg-41 to Ala-53,			

<p>Arg-69 to Thr-76, Leu-97 to Glu-103.</p>	<p>4250</p>	<p>159 - 443</p>	<p>2075</p>	<p>HVV AJ47R</p>	<p>HVV AJ47</p>	<p>L0659: 55, H0644: 23, L0748: 18, L0666: 17, L0747: 17, H0622: 16, S0194: 16, H0553: 15, L0662: 15, S0126: 15, L0740: 15, L0754: 14, H0031: 13, H0593: 12, L0649: 11, H0435: 11, L0757: 11, H0124: 10, S0250: 9, S0356: 8, H0672: 7, L0362: 7, L0779: 6, S0210: 5, L0771: 5, L0663: 5, L0664: 5, H0547: 5, L0750: 5, L0601: 5, S0360: 4, H0619: 4, L0764: 4, L0804: 4, L0775: 4, S0358: 3, H0486: 3, H0628: 3, H0264: 3, L0451: 3, L0776: 3, L0655: 3, L0783: 3, H0693: 3, H0660: 3, S0454: 3, L0749: 3, L0605: 3, S0192: 3, H0170: 2, H0294: 2, S0180: 2, H0586: 2, H0013: 2, H0687: 2, H0428: 2,</p>		
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HVVAK42	HVVAK42R	2076	121 - 312	4251							
HVVAK46	HVVAK46R	2077	3 - 782	4252	Lys-1 to Lys-14, Phe-21 to Trp-26, Val-87 to Cys-92, Thr-139 to Gln-153, Gln-156 to Lys-162, Glu-171 to Leu-177.						
HVVAK68	HVVAK68R	2078	372 - 584	4253				L0747: 22, L0599: 11, L0766: 9, L0748: 9, L0483: 8, L0740: 7, L0665: 5, L0754: 5.			

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HVVAK85	HVVAK85R	2079	2 - 373	4254				H0014: 1, S0051: 1, H0071: 1, H0083: 1, H0687: 1, S0003: 1, S0214: 1, H0688: 1, H0031: 1, H0163: 1, H0038: 1, H0040: 1, H0616: 1, H0063: 1, H0059: 1, T0069: 1, L0475: 1, S0015: 1, H0633: 1, H0538: 1, L0769: 1, L0796: 1, L0637: 1, L0373: 1, L0521: 1, L0375: 1, L0806: 1, L0661: 1, L0527: 1, L0656: 1, L0809: 1, L0647: 1, L0664: 1, H0519: 1, H0682: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, S0330: 1, H0521: 1, H0696: 1, H0134: 1, H0214: 1, H0555: 1, L0746: 1, L0750: 1, L0752: 1, L0759: 1, H0343: 1, L0589: 1, L0590: 1, S0194: 1, H0543: 1, S0452: 1 and H0506: 1.		
HVVAK81	HVVAK81R	2079	2 - 373	4254						
HVVAL81	HVVAL81R	2080	97 - 408	4255	Gly-72 to Asp-81.			AR089: 67, AR104: 8,		

								AR096: 5, AR060: 4, AR055: 4, AR061: 3 H0169: 21, H0674: 19, L0754: 19, H0309: 15, T0060: 7, H0038: 7, H0509: 7, S0044: 7, S0358: 6, H0124: 6, H0163: 6, H0672: 6, L0731: 6, L0750: 5, L0603: 5, H0032: 4, H0616: 4, S0330: 4, L0749: 4, L0755: 4, H0597: 3, S0318: 3, H0622: 3, L0540: 3, S0328: 3, S0406: 3, L0758: 3, S0444: 2, H0486: 2, H0122: 2, H0355: 2, S0316: 2, L0770: 2, L0646: 2, L0771: 2, L0662: 2, L0364: 2, L0803: 2, L0783: 2, H0696: 2, L0743: 2, L0747: 2, L0581: 2, H0506: 2, S0356: 1, S0376: 1, H0675: 1, H0643: 1, H0706: 1, H0253: 1, H0085: 1, H0204: 1, H0510: 1, S0314: 1, H0553: 1, H0673: 1,					
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HVVP65	HVVP65RP 00B	2081	124 - 354	4256	Arg-1 to Cys-10, Asn-29 to Phe-38.					
HVVAS27	HVVAS27RP 00B	2082	3 - 413	4257						
HVVAW26	HVVAW26R	2083	1 - 324	4258	Lys-62 to Tyr-73.					
HVVB91	HVVB91RP 00B	2084	2 - 436	4259						
HVVB09	HVVB09R	2085	3 - 236	4260	Leu-36 to Ser-43, Gly-68 to Phe-73.					
HVVB66	HVVB66R	2086	7 - 171	4261	Lys-17 to Tyr-22.		H0672: 2, S0007: 1, L0717: 1, H0545: 1, L0764: 1, L0649: 1, L0659: 1, L0809: 1, L0438: 1, H0555: 1, L0748: 1, L0754: 1 and L0752: 1.			
HVVBH88	HVVBH88R	2087	1 - 189	4262			L0659: 14, L0740: 11, H0052: 8, L0662: 8, L0666: 8, H0059: 7, H0265: 6, H0040: 6,			

								L0596: 6, S0356: 5, S0358: 5, H0539: 5, L0751: 5, L0750: 5, H0431: 4, L0759: 4, H0442: 3, H0575: 3, H0051: 3, T0010: 3, H0428: 3, H0031: 3, H0135: 3, H0433: 3, H0412: 3, H0509: 3, L0637: 3, L0372: 3, L0521: 3, L0806: 3, L0519: 3, L0663: 3, L0664: 3, L0665: 3, S0378: 3, L0591: 3, L0593: 3, H0483: 2, S0360: 2, H0587: 2, H0013: 2, H0036: 2, S0010: 2, S0049: 2, H0194: 2, T0110: 2, H0046: 2, H0123: 2, H0024: 2, H0083: 2, H0179: 2, T0006: 2, H0038: 2, H0538: 2, S0002: 2, L0769: 2, L0796: 2, L0646: 2, L0374: 2, L0648: 2, L0776: 2, H0520: 2, H0519: 2, H0689: 2, H0555: 2, S0028: 2, L0439: 2, L0752: 2,
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HVVB116	HVVB116R	2088	2 - 592	4263							
HVVB108	HVVB108R	2089	150 - 578	4264	Gln-5 to Pro-13, Pro-25 to Lys-32, Asp-62 to Ser-72, Gln-78 to Ser-85, Pro-91 to Glu-105.						
HVVB155	HVVB155RP 00B	2090	3 - 413	4265							
HVVBK13	HVVBK13R	2091	1 - 633	4266							

HVVBO65	HVVBO65R	2092	3 - 644	4267	Pro-62 to Pro-73, Thr-80 to Ser-92, Gln-108 to Tyr-116.			
HVVBO88	HVVBO88R	2093	50 - 433	4268				
HVVBR70	HVVBR70RP 00B	2094	2 - 406	4269				
HVVBT33	HVVBT33R	2095	116 - 316	4270	Asn-15 to Leu-27, Lys-48 to Val-53.			
HVVBT60	HVVBT60R	2096	454 - 2	4271				
HVVBY87	HVVBY87R	2097	3 - 161	4272				
HVVCB04	HVVCB04R	2098	2 - 580	4273	Pro-1 to Phe-9, Ser-111 to Asn-117, Ser-159 to Pro-167.			
HVVCB08	HVVCB08R	2099	1 - 792	4274	Ser-56 to Tyr-62, Gln-67 to Pro-74, Thr-83 to Gly-94, Gln-120 to Gln-130, Pro-150 to Ser-157.			
HVVCC06	HVVCC06R	2100	299 - 427	4275				
HVVCD65	HVVCD65R	2101	224 - 481	4276	Lys-40 to Gly-47.			
HVVCD81	HVVCD81R	2102	2 - 640	4277				
HVVCD87	HVVCD87R	2103	447 - 695	4278		L0439: 23, L0438: 20, H0556: 10, L0665: 10, S0358: 9, L0731: 8, H0423: 8, H0069: 7, H0622: 7, L0666: 7, L0748: 7, L0747: 7, H0486: 6, H0090: 6, L0664: 6, H0519: 6,		

	H0539: 6, L0749: 6, L0596: 6, S0222: 5, H0457: 5, H0435: 5, L0756: 5, L0758: 5, L0601: 5, H0013: 4, H0046: 4, H0150: 4, H0266: 4, H0038: 4, L0771: 4, L0662: 4, L0659: 4, L0663: 4, H0670: 4, H0672: 4, H0521: 4, S0404: 4, L0745: 4, H0265: 3, S0114: 3, H0650: 3, H0662: 3, S0360: 3, S0045: 3, H0333: 3, H0156: 3, H0318: 3, H0050: 3, H0620: 3, T0010: 3, H0375: 3, H0428: 3, H0039: 3, H0591: 3, H0040: 3, H0063: 3, H0412: 3, H0100: 3, H0529: 3, L0770: 3, L0775: 3, L0809: 3, H0547: 3, S0126: 3, H0436: 3, L0741: 3, L0752: 3, S0026: 3, H0624: 2, H0713: 2, H0583: 2, S0116: 2, H0663: 2, H0305: 2, H0638: 2,	
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				S0010: 1, S0665: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0309: 1, H0263: 1, H0597: 1, H0041: 1, H0563: 1, H0081: 1, H0012: 1, H0023: 1, H0051: 1, S0051: 1, H0356: 1, H0267: 1, H0179: 1, S0250: 1, H0252: 1, H0615: 1, T0023: 1, T0006: 1, H0031: 1, H0644: 1, L0055: 1, H0673: 1, S0364: 1, L0455: 1, H0068: 1, H0400: 1, S0036: 1, H0087: 1, H0551: 1, H0102: 1, T0041: 1, H0625: 1, H0641: 1, S0344: 1, S0002: 1, S0426: 1, L0369: 1, L0769: 1, L5575: 1, L0772: 1, L0373: 1, L0372: 1, L0363: 1, L0767: 1, L0649: 1, L0560: 1, L0650: 1, L0375: 1, L0661: 1, L0807: 1, L0384: 1, L0519: 1, L0792: 1, S0428: 1,			
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HVVC90	HVVC90R	2104	47 - 754	4279				H0144: 1, L0352: 1, H0520: 1, H0682: 1, H0660: 1, H0651: 1, H0710: 1, H0518: 1, S0152: 1, H0579: 1, H0696: 1, S0146: 1, H0576: 1, H0631: 1, S3012: 1, S0037: 1, S0028: 1, L0751: 1, L0754: 1, L0779: 1, L0777: 1, L0780: 1, L0753: 1, L0759: 1, S0031: 1, H0445: 1, L0687: 1, L0599: 1, L0608: 1, L0595: 1, H0136: 1, S0242: 1, S0194: 1, S0276: 1, H0543: 1, S0424: 1 and S0452: 1.		
HVVC63	HVVC63R	2105	338 - 778	4280						
HVVC65	HVVC65R	2106	2 - 214	4281						
HVVC38	HVVC38R	2107	3 - 497	4282						
HVVC29	HVVC29R	2108	1 - 441	4283				H0135: 2, S0046: 1, S0222: 1, H0052: 1, H0672: 1, S0328: 1 and H0214: 1.		
HVVC31	HVVC31R	2109	2 - 415	4284						
HVVC46	HVVC46R	2110	3 - 350	4285				Gly-16 to Lys-22, Trp-82 to Lys-87.		

HVVC93	HVVC93R	2111	1 - 405	4286	Arg-48 to Asn-57, Lys-77 to Glu-83, Phe-106 to Asp-112.	AR089: 107, AR096: 52, AR104: 30, AR060: 27, AR061: 14, AR055: 13		
HVVC28	HVVC28R	2112	3 - 350	4287	Glu-81 to Gly-91, Arg-107 to Asn-116.			
HVVC128	HVVC128R	2113	3 - 119	4288	Asp-10 to Lys-15, Lys-29 to Asp-34.			
HVVC150	HVVC150R	2114	44 - 460	4289				
HVVC185	HVVC185R	2115	3 - 647	4290	Asp-1 to Thr-14, Ala-76 to Thr-88, Asp-101 to Lys-115, Ala-128 to Gln-136, Pro-141 to Gln-151.			
HVVC151	HVVC151R	2116	1 - 351	4291		H0585: 4, H0457: 4, L0809: 4, L0747: 4, S0442: 3, H0492: 3, H0427: 3, H0318: 3, L0666: 3, H0690: 3, H0686: 2, H0662: 2, S0358: 2, S0408: 2, H0150: 2, H0135: 2, H0063: 2, H0494: 2, L0761: 2, L0764: 2, L0773: 2, L0662: 2, L0378: 2, L0665: 2, H0670: 2, S0406: 2, L0744: 2, L0749: 2, L0601: 2, H0170: 1,		

				H0685: 1, H0661: 1, H0402: 1, S0348: 1, S0354: 1, S0376: 1, S0360: 1, S0278: 1, H0586: 1, H0333: 1, H0642: 1, L0622: 1, S0280: 1, H0599: 1, H0253: 1, H0231: 1, H0545: 1, H0373: 1, H0266: 1, H0553: 1, S0036: 1, H0551: 1, H0116: 1, H0264: 1, H0059: 1, S0352: 1, S0440: 1, H0646: 1, L0640: 1, L0639: 1, L0630: 1, L0772: 1, L0373: 1, L0646: 1, L0800: 1, L0641: 1, L0374: 1, L0644: 1, L0645: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0659: 1, L0793: 1, L0532: 1, L0664: 1, H0520: 1, H0672: 1, S0380: 1, H0696: 1, H0478: 1, H0345: 1, L0439: 1, L0750: 1, L0759: 1, H0343: 1, H0595: 1 and H0422: 1.
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HVVC59	HVVC59R	2117	1 - 147	4292			L0751: 3, L0757: 3, L0662: 2, H0686: 1, H0266: 1, L0055: 1, L0763: 1, L0764: 1, L0768: 1, L0805: 1, L0653: 1, L0666: 1, H0690: 1, H0672: 1, L0777: 1, L0758: 1 and S0276: 1.		
HVVC78	HVVC78R	2118	3 - 320	4293					
HVCL52	HVCL52R	2119	1 - 339	4294	Pro-11 to Lys-31, Ser-36 to Gln-44, Thr-53 to Gly-58, Ala-74 to Arg-87, Pro-105 to His-113.				
HVCL73	HVCL73R	2120	2 - 775	4295	Gly-8 to Lys-22, Phe-29 to Trp-34, Val-95 to Cys-100, Thr-147 to Gln-161, Gln-164 to Lys-170, Glu-179 to Leu-185, Pro-194 to Gly-199.				
HVCM67	HVCM67R	2121	3 - 293	4296	Trp-36 to Thr-43, Gly-51 to Thr-70, Tyr-87 to Glu-97.				
HVCM84	HVCM84R	2122	3 - 347	4297					
HVVCN20	HVVCN20R	2123	35 - 466	4298					
HVVCN29	HVVCN29R	2124	96 - 332	4299			H0521: 182, H0522: 34, S0002: 30, S0278: 27, H0638: 23, S0344:		

	I3, S0144: 11, S0142: 9, H0580: 8, L0740: 6, L0747: 6, H0445: 6, H0090: 5, L0756: 5, L0777: 5, S0360: 4, H0591: 4, S0426: 4, L0771: 4, L0766: 4, L0776: 4, L0754: 4, S0194: 4, H0341: 3, S0376: 3, H0393: 3, H0575: 3, H0538: 3, H0144: 3, H0716: 2, S0212: 2, H0637: 2, H0331: 2, H0632: 2, H0486: 2, H0590: 2, H0046: 2, H0051: 2, S0440: 2, H0509: 2, L0783: 2, L0663: 2, H0555: 2, L0748: 2, L0439: 2, L0745: 2, L0758: 2, L0362: 2, H0170: 1, H0685: 1, T0049: 1, H0177: 1, S0442: 1, S0408: 1, S0132: 1, S0476: 1, S0300: 1, S6022: 1, H0392: 1, H0537: 1, H0438: 1, H0587: 1, H0497: 1, H0270: 1, T0060: 1, H0013: 1,					
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	H0427: 1, L0021: 1, H0581: 1, H0374: 1, H0597: 1, H0544: 1, H0546: 1, H0569: 1, H0123: 1, L0471: 1, H0012: 1, S0388: 1, H0275: 1, H0375: 1, H0286: 1, S0003: 1, L0194: 1, T0006: 1, H0644: 1, H0032: 1, H0674: 1, H0361: 1, S0036: 1, H0038: 1, H0040: 1, H0551: 1, H0413: 1, L0475: 1, H0561: 1, S0438: 1, H0131: 1, H0641: 1, L0369: 1, L0762: 1, L0637: 1, L0800: 1, L0662: 1, L0649: 1, L0388: 1, L0774: 1, L0775: 1, L0651: 1, L0653: 1, L0809: 1, L0789: 1, L0666: 1, L0665: 1, S0374: 1, S0126: 1, H0435: 1, H0659: 1, H0672: 1, S0378: 1, H0518: 1, S0392: 1, S3014: 1, L0751: 1, L0779: 1, L0780: 1, L0731: 1,	
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									L0759: 1, S0260: 1, L0599: 1, S0026: 1, H0423: 1, S0412: 1 and H0506: 1.			
HVVCN54	HVVCN54R	2125	2 - 460	4300								
HVVCN66	HVVCN66R	2126	3 - 212	4301								
HVVC013	HVVC013R	2127	2 - 352	4302			Gln-61 to Pro-68, Gln-103 to Ala-108, Tyr-111 to Thr-117.					
HVVC016	HVVC016R	2128	170 - 334	4303			Val-28 to Ser-33.					
HVVC087	HVVC087R	2129	3 - 404	4304			Lys-54 to Ala-67, Arg-77 to Thr-86.					
HVVC041	HVVC041R	2130	2 - 442	4305								
HVVC088	HVVC088R	2131	3 - 449	4306			Ala-35 to Ala-41, Pro-46 to Gly-54, Pro-67 to Gly-87.					
HVVC005	HVVC005R	2132	11 - 184	4307			Ser-23 to Lys-30.					
HVVC049	HVVC049R	2133	3 - 605	4308			Glu-74 to Arg-79, Glu-117 to Arg-134.					
HVVC070	HVVC070R	2134	10 - 144	4309			Arg-30 to Phe-36.		H0672: 2 and L0518: 1.			
HVVC093	HVVC093R	2135	1 - 630	4310								
HVVC028	HVVC028R	2136	105 - 335	4311								
HVVC032	HVVC032R	2137	35 - 217	4312			Arg-11 to Pro-17, Ser-33 to Lys-46.					
HVVC054	HVVC054R	2138	237 - 698	4313			His-1 to Asn-8, Arg-10 to Gly-16, Tyr-50 to Gly-56.		L0659: 55, H0644: 23, L0748: 18, L0666: 17, L0747: 17, H0622: 16, S0194: 16, H0553: 15,			

1449

	H0518: 2, H0696: 2, S3012: 2, L0752: 2, L0755: 2, L0731: 2, H0665: 2, H0171: 1, H0656: 1, S0212: 1, S0376: 1, S0410: 1, S0132: 1, H0393: 1, L0717: 1, H0392: 1, H0331: 1, H0485: 1, T0040: 1, T0060: 1, L0021: 1, H0599: 1, T0082: 1, H0618: 1, H0052: 1, H0085: 1, T0110: 1, H0046: 1, H0050: 1, L0471: 1, H0355: 1, S0003: 1, H0615: 1, H0039: 1, L0143: 1, H0111: 1, L0455: 1, S0366: 1, H0135: 1, H0040: 1, H0551: 1, H0100: 1, L0564: 1, H0509: 1, H0517: 1, L0763: 1, L0769: 1, L0772: 1, L0646: 1, L0768: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0654: 1, L0517: 1, L0384: 1, L0383: 1, L0647: 1,	
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<p>HVVCU50</p>	<p>HVVCU50R</p>	<p>2141</p>	<p>23 - 307</p>	<p>4316</p>	<p>Gln-8 to Lys-13, Glu-32 to Arg-56, Ser-60 to Thr-69.</p>	<p>H0574: 1, H0635: 1, S0049: 1, H0052: 1, T0010: 1, H0288: 1, H0286: 1, H0553: 1, L0455: 1, L0351: 1, H0538: 1, L0763: 1, L0638: 1, L0775: 1, L0659: 1, L0783: 1, L0789: 1, L0663: 1, L0665: 1, H0690: 1, S0152: 1, L0740: 1, L0753: 1 and S0424: 1.</p>			
<p>HVVCU50</p>	<p>HVVCU50R</p>	<p>2141</p>	<p>23 - 307</p>	<p>4316</p>	<p>Gln-8 to Lys-13, Glu-32 to Arg-56, Ser-60 to Thr-69.</p>	<p>L0747: 16, L0750: 15, L0752: 15, L0769: 9, L0757: 9, L0005: 8, L0775: 8, L0740: 8, L0774: 6, L0471: 5, H0087: 5, L0758: 5, H0656: 4, L0772: 4, L0731: 4, L0588: 4, H0657: 3, H0341: 3, H0638: 3, S0007: 3, S0046: 3, H0599: 3, S0049: 3, H0009: 3, H0412: 3, L0776: 3, L0783: 3, S0374: 3, H0660: 3, H0672: 3, L0749: 3, L0755: 3, H0352: 3, S0222: 2, H0441: 2, H0251: 2.</p>			

H0309: 2, H0620: 2, H0266: 2, T0067: 2, H0494: 2, L0761: 2, L0651: 2, L0518: 2, S0126: 2, H0670: 2, S0328: 2, H0521: 2, S3012: 2, S0206: 2, L0745: 2, L0753: 2, L0759: 2, L0596: 2, L0608: 2, H0423: 2, H0395: 1, T0002: 1, H0685: 1, S0218: 1, S0116: 1, S0110: 1, H0484: 1, H0661: 1, H0663: 1, H0306: 1, H0402: 1, S0356: 1, S0442: 1, S0358: 1, S0360: 1, H0208: 1, S0045: 1, H0393: 1, H0351: 1, H0392: 1, H0333: 1, H0574: 1, L0623: 1, T0039: 1, T0040: 1, L0586: 1, H0250: 1, H0156: 1, H0575: 1, S0346: 1, H0318: 1, H0581: 1, H0421: 1, H0597: 1, H0546: 1, H0545: 1, H0046: 1, H0041: 1, H0081: 1, H0012: 1,							
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					H0023: 1, S0388: 1, H0275: 1, H0356: 1, S0023: 1, H0594: 1, H0188: 1, H0428: 1, H0535: 1, H0674: 1, S0036: 1, H0135: 1, H0063: 1, H0413: 1, H0056: 1, T0004: 1, H0100: 1, T0042: 1, H0334: 1, H0641: 1, H0647: 1, S0144: 1, S0344: 1, L0763: 1, L0371: 1, L0637: 1, L0764: 1, L0768: 1, L0364: 1, L0376: 1, L0524: 1, L0632: 1, L0655: 1, L0659: 1, L0782: 1, L0809: 1, L0666: 1, L0663: 1, H0144: 1, L0565: 1, H0691: 1, H0547: 1, H0593: 1, H0690: 1, H0684: 1, H0579: 1, S0044: 1, H0631: 1, S0028: 1, L0742: 1, L0748: 1, L0746: 1, S0031: 1, S0434: 1, H0667: 1, S0192: 1, S0276: 1, H0542: 1, H0422: 1, H0506: 1 and
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HVVCV41	HVVCV41R	2142	2 - 310	4317	Glu-1 to Gln-10, Val-74 to Arg-83.	L0600: 1.			
HVVCV68	HVVCV68R	2143	2 - 244	4318	Pro-12 to Ser-18, Pro-25 to Pro-30, Ala-62 to Ser-70.				
HVVCW75	HVVCW75R	2144	3 - 410	4319	Met-22 to Asp-27, Cys-43 to Trp-50, Asp-79 to Trp-93, Glu-124 to Glu-136.	L0794: 5, H0617: 4, H0486: 3, L0800: 3, L0764: 3, H0672: 3, L0751: 3, S0360: 2, H0188: 2, S0022: 2, L0769: 2, L0803: 2, L0809: 2, L0665: 2, L0361: 2, H0556: 1, H0583: 1, H0657: 1, S0418: 1, L0005: 1, S0354: 1, S0408: 1, S0045: 1, S0046: 1, S6014: 1, H0587: 1, H0333: 1, H0559: 1, H0596: 1, H0673: 1, H0616: 1, H0494: 1, L0761: 1, L0662: 1, L0651: 1, L0659: 1, L0382: 1, L5622: 1, L0663: 1, H0690: 1, H0670: 1, S0152: 1, S0390: 1, L0747: 1, L0777: 1, L0731: 1, L0758: 1, S0436: 1,			

HVVCX17	HVVCX17R	2145	124 - 297	4320	Asp-1 to Pro-10.	L0592: 1, L0601: 1 and S0424: 1. H0052: 15, H0585: 12, L0740: 12, L0439: 11, L0758: 10, L0754: 9, L5286: 8, L0748: 8, H0141: 7, L0666: 7, H0521: 7, L0742: 7, L0749: 7, H0556: 6, S0222: 6, H0494: 6, L0743: 6, L0751: 6, L0757: 6, H0253: 5, T0010: 5, L0803: 5, L0731: 5, H0657: 4, S0360: 4, S0408: 4, S0046: 4, S0278: 4, H0618: 4, S0049: 4, H0617: 4, H0623: 4, S0038: 4, L0764: 4, L0766: 4, L0805: 4, L0809: 4, L0744: 4, L0746: 4, S0040: 3, S0212: 3, L0005: 3, H0441: 3, H0333: 3, H0013: 3, H0599: 3, H0009: 3, H0242: 3, H0644: 3, H0038: 3, H0551: 3, H0412: 3, T0042: 3, L0769: 3, L0804: 3, L0774: 3,		
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L0776: 3, L0792: 3, L0663: 3, L0438: 3, S0044: 3, S0406: 3, S0028: 3, L0745: 3, L0779: 3, L0752: 3, L0362: 3, S6024: 2, H0733: 2, S0132: 2, H0261: 2, H0455: 2, H0438: 2, H0497: 2, H0041: 2, L0471: 2, H0620: 2, H0024: 2, H0051: 2, H0266: 2, H0284: 2, S0250: 2, T0006: 2, S0366: 2, S0036: 2, H0591: 2, S0344: 2, L0369: 2, L5623: 2, L0791: 2, L0665: 2, S0374: 2, H0520: 2, S0126: 2, H0672: 2, H0436: 2, L0741: 2, L0747: 2, L0750: 2, L0756: 2, L0759: 2, S0436: 2, L0591: 2, L0592: 2, L0485: 2, L0608: 2, L0593: 2, L0595: 2, H0667: 2, H0423: 2, L0718: 2, H0149: 1, H0265: 1, H0139: 1, H0716: 1, S0114: 1,							
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									H0674: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, H0264: 1, H0488: 1, H0268: 1, H0059: 1, H0100: 1, L0351: 1, H0334: 1, H0633: 1, S0142: 1, H0538: 1, S0426: 1, L0640: 1, L0637: 1, L5575: 1, L0800: 1, L0648: 1, L0794: 1, L0655: 1, L0657: 1, L0659: 1, L0542: 1, L0783: 1, L0382: 1, L5622: 1, H0144: 1, H0723: 1, H0519: 1, H0690: 1, H0435: 1, S0330: 1, H0539: 1, S0454: 1, S0404: 1, H0555: 1, S3014: 1, L0780: 1, L0755: 1, H0445: 1, H0595: 1, S0434: 1, L0588: 1, L0605: 1, L0366: 1, H0136: 1, H0542: 1, H0543: 1, H0422: 1, H0506: 1 and H0008: 1.			
HVVCX46	HVVCX46R	2146	35 - 418	4321	Arg-9 to Ile-31, Gln-38 to Lys-43, Gln-87 to Ala-92							

HVVCY29	HVVCY29R	2147	2 - 775	4322	Ser-116 to Pro-128, Ser-8 to Ser-14, Asn-68 to Tyr-74, His-80 to Val-91, Glu-141 to Phe-147, Ala-159 to Ser-170, Asp-184 to Gly-199.			
HVVCY55	HVVCY55R	2148	2 - 697	4323	Pro-60 to Gly-72, Gln-89 to Ser-94, Pro-121 to Pro-132, Pro-146 to Pro-166.			
HVVCY60	HVVCY60R	2149	1 - 588	4324	Lys-30 to Glu-36, Lys-55 to Tyr-68, Ile-82 to Asp-87, Trp-115 to Ser-125, Pro-139 to Pro-146.			
HVVCY62	HVVCY62R	2150	3 - 620	4325	Ala-17 to Lys-23, Leu-25 to Ala-35, Gln-71 to Ala-76, Tyr-79 to His-85, Pro-112 to Gly-120, Gly-149 to Tyr-165, Lys-175 to His-181.			
HVVCY75	HVVCY75R	2151	139 - 276	4326				
HVVCY77	HVVCY77R	2152	2 - 598	4327	Glu-179 to Ala-184.			
HVVCZ18	HVVCZ18R	2153	423 - 542	4328				
HVVCZ50	HVVCZ50R	2154	139 - 291	4329		H0412: 26, S0360: 11, S0126: 8, H0014: 7, H0628: 6, H0413: 6,		

S0212: 5, S0045: 5, H0411: 5, H0486: 4, S0003: 4, S0210: 4, H0672: 4, L0731: 4, S0192: 4, S0418: 3, S0046: 3, H0169: 3, L0649: 3, S0040: 2, H0671: 2, H0662: 2, S0358: 2, S0376: 2, S0132: 2, H0635: 2, H0098: 2, H0544: 2, H0546: 2, H0545: 2, H0242: 2, H0015: 2, S0250: 2, H0551: 2, H0268: 2, H0494: 2, L0659: 2, L0517: 2, L0809: 2, H0689: 2, S0028: 2, H0506: 2, H0170: 1, H0171: 1, H0295: 1, H0661: 1, H0639: 1, H0574: 1, H0599: 1, L0022: 1, H0108: 1, H0042: 1, H0004: 1, H0044: 1, H0355: 1, H0510: 1, H0266: 1, S0318: 1, S0316: 1, S0022: 1, H0328: 1, H0039: 1, H0622: 1, H0634: 1, H0488: 1, H0623: 1,
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HVVDC09	HVVDC09R	2155	161 - 313	4330			L0564: 1, H0509: 1, L0764: 1, L0662: 1, L0653: 1, H0144: 1, S0374: 1, L0565: 1, H0670: 1, S0380: 1, H0518: 1, H0555: 1, L0748: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0777: 1, L0362: 1 and S0196: 1. L0777: 17, L0439: 13, L0731: 9, H0521: 8, S0003: 5, H0547: 5, L0759: 5, L0803: 4, L0748: 4, L0750: 4, L0752: 4, L0351: 3, H0560: 3, L0751: 3, L0749: 3, L0757: 3, H0543: 3, S0134: 2, L0415: 2, S0116: 2, S0358: 2, S0376: 2, H0318: 2, H0581: 2, H0421: 2, H0328: 2, H0090: 2, L0646: 2, L0662: 2, L0768: 2, L0766: 2, S0328: 2, H0215: 2, S0406: 2, L0744: 2, L0608: 2, S0192: 2, H0170: 1, H0171: 1, H0556: 1,	
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HVVDH44	HVVDH44R	2156	2 - 580	4331			H0593: 1, S0126: 1, H0660: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, S0037: 1, L0747: 1, L0605: 1, S0011: 1, H0423: 1, H0422: 1 and H0506: 1.		
HVVDM23	HVVDM23R	2157	3 - 545	4332					
HVVDM31	HVVDM31R	2158	3 - 446	4333					
HVVDM45	HVVDM45R	2159	1 - 390	4334			L0742: 10, H0144: 6, H0265: 5, S0116: 4, S0046: 4, S0222: 4, H0556: 3, H0250: 3, H0052: 3, S0027: 3, L0595: 3, S0212: 2, H0306: 2, S0358: 2, H0013: 2, H0618: 2, H0124: 2, H0100: 2, S0053: 2, H0660: 2, S0330: 2, S3012: 2, L0748: 2, L0439: 2, L0745: 2, L0757: 2, H0445: 2, S0342: 1, H0484: 1, H0638: 1, S0007: 1, H0393: 1, H0437: 1, H0549: 1, H0438: 1, H0486: 1, H0253: 1, H0390: 1.		

									H0544: 1, H0046: 1, H0009: 1, H0023: 1, N0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, S0366: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, H0130: 1, H0641: 1, S0142: 1, S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0794: 1, L0766: 1, L0775: 1, L0654: 1, L0655: 1, L0352: 1, S0008: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, L0779: 1, L0605: 1, L0593: 1, S0026: 1, H0667: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and H0506: 1.					
HVVDM53	HVVDM53R	2160	2 - 241	4335										
HVVDM83	HVVDM83R	2161	204 - 524	4336					L0766: 9, L0665: 7, L0659: 6, L0761: 5, L0662: 4, L0776: 4,					

S0418: 3, S0007: 3, H0559: 3, H0457: 3, H0617: 3, L0800: 3, L0751: 3, L0750: 3, H0309: 2, L0769: 2, L0667: 2, L0794: 2, L0664: 2, L0756: 2, L0779: 2, L0777: 2, L0758: 2, H0543: 2, H0556: 1, S0402: 1, S0114: 1, H0650: 1, H0656: 1, S0116: 1, H0484: 1, H0254: 1, H0255: 1, S0420: 1, S0354: 1, S0358: 1, H0676: 1, L0717: 1, S0222: 1, H0614: 1, L0622: 1, H0486: 1, H0069: 1, H0253: 1, H0581: 1, H0024: 1, H0051: 1, H0100: 1, H0494: 1, H0625: 1, H0561: 1, S0144: 1, L0374: 1, L0771: 1, L0773: 1, L0768: 1, L0387: 1, L0774: 1, L0653: 1, L0657: 1, L0384: 1, L0789: 1, L0790: 1, L0792: 1, H0684: 1, H0659: 1,
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								H0670: 1, H0672: 1, H0521: 1, S0027: 1, L0741: 1, L0754: 1, L0749: 1, L0780: 1, H0422: 1 and H0352: 1.			
HVVDN29	HVVDN29R	2162	2 - 685	4337	Asp-50 to Gly-55.						
HVVDN77	HVVDN77R	2163	1 - 594	4338							
HVVDP70	HVVDP70R	2164	40 - 354	4339	Lys-24 to Glu-34, Pro-47 to Arg-56, Tyr-77 to Pro-90.						
HVVDQ46	HVVDQ46R	2165	106 - 423	4340	Lys-12 to Thr-18, Glu-20 to Lys-26, Lys-83 to Lys-90.			H0551: 9, L0662: 9, L0471: 8, L0754: 7, L0766: 6, L0666: 6, S0358: 5, L0663: 5, L0750: 5, L0779: 5, S0007: 4, H0373: 4, L0770: 4, L0803: 4, L0777: 4, L0752: 4, L0757: 4, L0758: 4, S0114: 3, S0212: 3, H0673: 3, H0412: 3, L0769: 3, L0805: 3, L0776: 3, L0809: 3, S0126: 3, L0740: 3, H0506: 3, H0657: 2, S0116: 2, S0356: 2, S0360: 2, H0411: 2, H0390: 2, H0318: 2, S0214: 2, H0644: 2, H0617: 2, H0494: 2,			

L0761: 2, L0773: 2, L0649: 2, L0774: 2, L0653: 2, L0529: 2, H0435: 2, L0749: 2, L0731: 2, L0588: 2, L0608: 2, S0026: 2, H0543: 2, H0294: 1, H0650: 1, H0341: 1, S0354: 1, S0376: 1, H0580: 1, H0339: 1, H0208: 1, S0132: 1, H0640: 1, H0369: 1, H0438: 1, H0574: 1, H0486: 1, H0101: 1, H0427: 1, H0097: 1, H0575: 1, H0037: 1, H0230: 1, H0052: 1, L0040: 1, H0544: 1, H0545: 1, H0086: 1, H0009: 1, S0024: 1, H0510: 1, S0250: 1, H0428: 1, H0166: 1, H0102: 1, H0560: 1, S0294: 1, H0509: 1, S0150: 1, H0633: 1, H0647: 1, L0631: 1, L0646: 1, L0764: 1, L0804: 1, L0806: 1, L0606: 1, L0657: 1, L0659: 1, L0636: 1,						
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HVVDQ49	HVVDQ49R	2166	2 - 103	4341		L0783: 1, L0382: 1, L0789: 1, L0664: 1, L0665: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0555: 1, H0478: 1, L0609: 1, L0744: 1, L0748: 1, L0747: 1, L0755: 1, H0445: 1, H0343: 1, L0581: 1, H0653: 1 and H0352: 1.		
						H0521: 7, H0052: 6, H0622: 5, L0646: 5, H0617: 4, L0662: 4, L0659: 4, H0556: 3, H0341: 3, H0484: 3, S0358: 3, H0580: 3, H0551: 3, L0369: 3, L0657: 3, L0664: 3, H0670: 3, S0328: 3, H0445: 3, L0603: 3, H0583: 2, S0212: 2, S0376: 2, S0007: 2, S0045: 2, S0046: 2, S0132: 2, H0438: 2, H0586: 2, H0486: 2, H0618: 2, S0474: 2, S0049: 2, H0545: 2,		

	H0268: 2, H0494: 2, H0509: 2, H0647: 2, L5565: 2, L0645: 2, L0764: 2, L0666: 2, L0665: 2, H0520: 2, H0689: 2, H0658: 2, S0152: 2, S0406: 2, S3014: 2, L0439: 2, L0751: 2, L0754: 2, L0750: 2, L0758: 2, S0434: 2, L0596: 2, L0581: 2, L0595: 2, L0601: 2, S6024: 1, H0294: 1, H0657: 1, H0656: 1, L0415: 1, H0669: 1, H0671: 1, S0356: 1, S0354: 1, S0360: 1, S0410: 1, H0340: 1, S0476: 1, S0278: 1, H0549: 1, H0550: 1, H0370: 1, H0587: 1, H0497: 1, H0643: 1, H0257: 1, H0318: 1, H0457: 1, H0041: 1, H0123: 1, H0024: 1, H0071: 1, H0375: 1, H0290: 1, H0292: 1, H0428: 1, L0142: 1, S0036: 1, H0063: 1, H0087: 1.
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HVVD12	HVVD12R	2167	1 - 732	4342					H0264: 1, H0059: 1, H0100: 1, S0448: 1, S0450: 1, S0440: 1, H0646: 1, S0144: 1, S0002: 1, L0762: 1, L0640: 1, L0639: 1, L0637: 1, L0372: 1, L0643: 1, L0771: 1, L0773: 1, L0648: 1, L0386: 1, L0774: 1, L0775: 1, L0375: 1, L0376: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0782: 1, L0383: 1, L0791: 1, H0693: 1, H0547: 1, H0519: 1, H0435: 1, H0660: 1, H0672: 1, S0330: 1, H0696: 1, H0134: 1, H0478: 1, S0028: 1, L0743: 1, L0745: 1, L0747: 1, L0749: 1, L0731: 1, S0436: 1, L0593: 1, H0667: 1, H0543: 1, H0423: 1 and H0352: 1.		
HVVD21	HVVD21R	2168	2 - 730	4343					AR104: 17, AR089: 10, AR096: 10, AR061: 8, AR060: 4, AR055:		

HVVDS35	HVVD35R	2169	2 - 640	4344		4	S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5, H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2, H0036: 2, S0049: 2, H0052: 2, H0327: 2, H0687: 2, H0428: 2, H0553: 2, H0644: 2, H0038: 2, L0520: 2,		
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L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1, H0550: 1, H0592: 1, H0587: 1, H0599: 1, H0042: 1, H0590: 1, H0318: 1, H0309: 1, H0545: 1, H0563: 1, H0564: 1, H0123: 1, H0019: 1, S0050: 1, L0163: 1, S0388: 1, H0356: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, H0031: 1, H0111: 1, H0169: 1, S0364: 1, L0455: 1, H0135: 1, H0163: 1, T0067: 1, T0069: 1, T0004: 1, H0100: 1, S0112: 1, L0370: 1, L0598: 1, L0769: 1, L0630: 1, L0800: 1,								
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HVVDT25	HVVDT25R	2170	231 - 353	4345	Thr-35 to Asn-41.	L0648: 1, L0363: 1, L0768: 1, L0649: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0784: 1, L0523: 1, L0805: 1, L0776: 1, L0527: 1, L0657: 1, L0635: 1, L0783: 1, L0789: 1, L0532: 1, L0664: 1, H0691: 1, T0068: 1, S0148: 1, H0693: 1, H0520: 1, H0593: 1, H0689: 1, H0684: 1, S0330: 1, S0380: 1, S0174: 1, H0555: 1, L0612: 1, L0743: 1, L0748: 1, L0751: 1, L0749: 1, L0779: 1, L0759: 1, L0689: 1, S0434: 1, L0604: 1, L0366: 1, S0106: 1 and S0021: 1.			
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HVVDT29	HVVDT29R	2171	109 - 471	4346	Glu-11 to Arg-17,	L0748: 11, L0758: 10,
HVVDT44	HVVDT44R	2172	2 - 460	4347	Arg-66 to Pro-79, Ser-104 to Gln-112, Ser-116 to Ser-125.	L0747: 8, L0439: 7, H0144: 6, L0805: 5, L0662: 4, H0341: 3, H0052: 3, L0794: 3, L0803: 3, L0809: 3, H0672: 3, L0741: 3, L0752: 3, H0619: 2, S0222: 2, H0013: 2, H0014: 2, H0266: 2, H0553: 2, L0455: 2, H0591: 2, L0770: 2, L0646: 2, L0764: 2, L0666: 2, L0665: 2, H0547: 2, S0126: 2, L0596: 2, L0589: 2, L0605: 2, H0543: 2, H0423: 2, H0624: 1, H0556: 1, H0686: 1, S0040: 1, H0717: 1, H0671: 1, S0476: 1, L0717: 1, H0411: 1, H0586: 1, H0333: 1, H0574: 1, L0021: 1, H0575: 1, H0618: 1, S0010: 1, H0318: 1, H0544: 1, H0009: 1, H0050: 1, L0471: 1, L0163: 1, S6028: 1,

HVVDU49	HVVDU49R	2173	328 - 600	4348	Asn-1 to Leu-6.		S0022: 1, S0214: 1, H0628: 1, L0456: 1, S0366: 1, S0036: 1, H0090: 1, H0038: 1, H0040: 1, H0551: 1, H0264: 1, H0059: 1, S0112: 1, T0041: 1, H0647: 1, H0652: 1, S0426: 1, L0763: 1, L0638: 1, L0796: 1, L0630: 1, L0768: 1, L0649: 1, L0774: 1, L0378: 1, L0653: 1, L0657: 1, L0659: 1, L0783: 1, L0647: 1, L0791: 1, L0663: 1, L0664: 1, S0053: 1, H0519: 1, H0539: 1, H0696: 1, S0406: 1, H0555: 1, H0627: 1, L0744: 1, L0754: 1, L0746: 1, L0759: 1, S0031: 1, L0584: 1, L0608: 1, L0594: 1, S0026: 1, H0665: 1, H0136: 1, H0216: 1 and H0422: 1.		
HVVDU49	HVVDU49R	2173	328 - 600	4348	Asn-1 to Leu-6.		H0672: 2 and S6028: 1.		

HVVDW02	HVVDW02R	2174	3 - 266	4349					
HVVDW61	HVVDW61R	2175	2 - 502	4350	Ser-1 to Pro-9.				
HVVDX40	HVVDX40R	2176	294 - 455	4351					
HVVDX90	HVVDX90R	2177	14 - 511	4352					
HWHH07	HWHH07R	2178	2 - 391	4353					
HWLAC51	HWLAC51R	2179	11 - 178	4354					
HWLJR51	HWLJR51R	2180	167 - 343	4355		L0766: 3, H0651: 2, H0686: 1, H0656: 1, S0358: 1, L0773: 1, L0775: 1, L0657: 1, L0809: 1, L0792: 1 and L0731: 1.			
HWLME48	HWLME48R	2181	3 - 197	4356	Lys-1 to Asp-8, Lys-41 to Gln-50.	S0152: 7, L0601: 4, H0013: 3, H0551: 3, H0264: 3, H0521: 3, S0046: 2, H0050: 2, H0266: 2, S0022: 2, H0031: 2, H0644: 2, H0494: 2, H0519: 2, H0556: 1, S0040: 1, T0049: 1, S0001: 1, S0356: 1, S0354: 1, S0376: 1, S0045: 1, S0132: 1, H0549: 1,			

HWLVY65	HWLVY65R	2182	209 - 373	4357				H0550: 1, H0486: 1, T0039: 1, T0040: 1, S0280: 1, H0042: 1, H0575: 1, T0082: 1, H0421: 1, L0471: 1, H0373: 1, H0051: 1, H0355: 1, H0615: 1, H0622: 1, L0483: 1, S0364: 1, H0591: 1, H0268: 1, H0561: 1, S0210: 1, L0364: 1, L0649: 1, L0538: 1, L0659: 1, S0428: 1, H0144: 1, L0602: 1, S0390: 1, S0028: 1, L0758: 1, S0434: 1, L0485: 1 and H0543: 1.		
HWMTB35	HWMTB35R	2183	1 - 435	4358		Cys-6 to Ser-12, Gln-27 to Glu-32, Arg-52 to Arg-67, Asp-140 to Asp-145.				
HWNEO25	HWNEO25R	2184	43 - 210	4359		Thr-26 to Ile-34.				

[0040] The first column in Table 1 provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig, and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

[0041] The second column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the ovarian associated contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[0042] The fifth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[0043] Column 6 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1. It

will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[0044] Column 7 in Table 1 provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be

predominantly expressed in ovarian tissues, including normal and diseased ovarian tissues (See Table 1, column 7 and Table 4).

[0045] Column 8 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[0046] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1 under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[0047] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 2

Clone ID NO:Z	Contig ID:	SEQ ID NO: X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/ Percent Identity	NT From	NT To
HOVCD34	396327	11	blastx.2	(AK000844) unnamed protein product [Homo sapiens]	dbj BAA91396.1	58%	319	167
HEBGD58	498281	12	blastx.2	eggshell protein - fluke (Schistosoma haematobium) (subclone 1)	pir A44805 A44805	74%	3	98
HETCD42	533532	13	blastx.2	actin capping protein alpha subunit [Homo sapiens]	gb AA88848.1	100%	90	947
HTXKC18	535854	14	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	62%	873	676
HLDRK20	553765	15	blastx.2	complement factor B [Homo sapiens]	emb CAA51389.1	91%	150	1283
H2MBD33	558474	16	blastx.2	NBR2 PROTEIN (NEXT TO BRCA1 GENE 2 PROTEIN).	sp O15453 NBR2_H UMAN	100%	138	290
HSYBX61	558708	17	blastx.2	N-cadherin [Homo sapiens]	gb AAA03236.1	98%	3	515
HELHC03	562745	18	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094 21	67% 81%	1063 1154	905 1089
HOFMP70	585385	19	blastx.2	precursor polypeptide	emb CAA33261.1	75%	120	347

					(AA -21 to 782) [Homo sapiens]						
HSKNZ25	585675	20	blastx.2		unknown protein [Homo sapiens]	gb AAA88038.1	63%	522	686		
HDPFK39	588869	21	blastx.2		leukocyte adhesion glycoprotein precursor [Homo sapiens]	gb AAAS9491.1	99% 90%	79 681	687 746		
HL1AB07	638220	22	blastx.2		(AF151884) CGI-126 protein [Homo sapiens]	gb AAD34121.1 AF151884.1	100% 91%	2 463	466 498		
HHGAS83	654868	23	blastx.2		(AF044671) MM46 [Homo sapiens]	gb AAD02337.1	100%	133	393		
HTSGU37	704405	24	blastx.2		(AF019406) collagen type IX alpha 2 chain [Homo sapiens]	gb AAC33512.1	100% 50% 51% 40% 51% 52% 53% 47% 54% 46% 52% 47% 48% 38% 48% 50% 46% 37% 49%	117 192 189 12 192 195 192 156 189 156 195 195 192 15 192 195 192 15 192 195 192 15 195	434 434 431 434 431 431 431 431 431 431 431 431 431 431 431 434 431 431 431 431		

								48%	195	431
								50%	201	431
								37%	24	431
								48%	189	431
								48%	189	431
								44%	180	431
								46%	195	434
								43%	192	425
								40%	195	461
								43%	195	434
								48%	195	413
								34%	45	395
								44%	192	365
								36%	195	431
								47%	192	347
								47%	395	502
								59%	395	490
								44%	383	481
								52%	401	472
								46%	401	481
								38%	383	481
								43%	395	481
								40%	383	481
								38%	383	481
								33%	380	502
								47%	422	487
								61%	419	457
								29%	331	432
								52%	430	218
								37%	249	133

H2LAN34	705692	25	blastx.2	unnamed protein product [unidentified]	emb CAB42187.1	38% 50% 32%	240 471 501	100 418 421
HPMBZ40	711500	26	blastx.2	fusion protein: ubiquitin (bases 43_513); ribosomal protein S27a (bases 217_532) [Rattus norvegicus]	emb CAA57432.1	87%	402	563
HL YEP52	732342	27	blastx.2	tyrosine kinase activator protein 1 (TKA-1) [Homo sapiens]	emb CAA90511.1	95% 92% 51% 35% 32% 38%	101 585 149 619 619 775	580 1007 547 1008 1008 846
HTTEC47	745343	28	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	73% 77% 63%	696 229 902	232 20 627
HOFMO90	746416	29	blastx.2	(AF046001) zinc finger transcription factor [Homo sapiens]	gb AAC78561.1	89% 70%	122 348	367 440
HCHND34	762806	30	blastx.2	cytochrome oxidase subunit III [Phoca vitulina]	emb CAA45263.1	81% 86%	12 500	497 778

[illegible]

HTTIQ02	829981	41	blastx.2	[Rattus norvegicus] activating transcription factor 3 [Homo sapiens]	gb AAA20506.1	96%	44	391
HWACG9 1	830195	42	blastx.2	heat shock protein 90, hsp90 [rats, brain, Peptide, 724 aa] [Rattus sp.]	gb AAB23369.1	82% 93% 37% 76%	119 88 60 573	610 132 170 611
HUFBX52	830497	43	blastx.2	tenascin X [Homo sapiens]	gb AAB47488.1 AAB 47488	99% 100% 29% 26% 30% 27% 29% 28% 25% 27% 28% 28% 27% 28% 29% 24% 24% 32% 29% 24% 30% 32%	2 1525 20 20 20 17 20 17 20 8 2 14 20 17 20 365 20 413 11 2 20 17	1525 1785 1255 1114 1033 991 988 934 1096 898 973 856 892 712 712 1150 973 946 907 991 589 589

29%	20	712
27%	20	601
27%	2	856
31%	716	1111
25%	176	1012
30%	176	562
25%	437	1096
29%	92	565
25%	521	1135
23%	437	1045
23%	434	1096
20%	488	1231
25%	860	1141
22%	557	1111
25%	860	1153
24%	557	1309
28%	809	1135
20%	641	1117
27%	437	1021
39%	437	604
36%	1487	1690
27%	557	1096
28%	1487	1684
23%	788	1135
22%	809	1309
30%	1487	1684
33%	638	877
29%	35	331
23%	455	1045
28%	1487	1684

							27%	1487	1684
							30%	622	825
							25%	1487	1684
							37%	1556	1690
							28%	1487	1684
							23%	1487	1690
							27%	316	501
							48%	1110	1190
							30%	962	1150
							64%	1101	1142
							32%	267	404
							26%	52	498
							52%	1607	1663
							32%	1089	1181
							32%	1089	1181
							22%	650	1027
							53%	1398	1436
							60%	1089	1118
							41%	189	257
							29%	118	255
							37%	979	1083
							29%	1024	1146
							35%	361	480
							34%	1050	1175
HWLJE49	831453	44	blastx.2	2A9 peptide [Homo sapiens]	gb AAA35886.1		98%	46	315
HLQBT44	832454	45	blastx.2	precursor polypeptide [Homo sapiens]	emb CAA28169.1		100%	175	357
HSLGG58	833088	46	blastx.2	(AF096304) putative sterol reductase SR-1	gb AAD09765.1		100%	143	181
							97%	134	997
								1018	1305

HCHBQ33	840756	47	blastx.2	[Homo sapiens] (AB005624) rig-analog DNA-binding protein [Sus scrofa]	dbj BAA21510.1	61%	976	1029
HDTMK30	840862	48	blastx.2	cysteine-rich intestinal protein [Homo sapiens]	gb AAB61158.1	100%	123	353
HDPFX64	841088	49	blastx.2	quinone oxidoreductase [Homo sapiens]	gb AAA60239.1	100%	404	1096
HODFG71	843485	50	blastx.2	(AF081114) ORF2 [Mus musculus domesticus]	gb AAC72810.1	29% 34% 50% 41% 34%	1121 591 281 1188 860	834 301 198 1102 717
HCE3I65	844534	51	blastx.2	kinesin-like motor protein KIF1C [Homo sapiens]	gb AAC52117.1	100%	11	172
HSAVH65	847355	52	blastx.2	plasmolipin [Rattus norvegicus]	emb CAA90017.1	48%	11	382
HBXFT41	847647	53	blastx.2	P26s4 [Cricetinae gen. sp.]	gb AAB34132.1	93%	707	805
HBMCM3 8	847821	54	blastx.2	(AF161356) HSPC093 [Homo sapiens]	gb AAF28916.1 AF1 61356_1	55% 71% 59%	406 485 333	266 390 268

HACBO42	849064	55	blastx.2	G-protein coupled receptor, SREB1 - human	pir JC7287 JC7287	63%	534	502
HODBF86	859572	56	blastx.2	(AF123880) gag polyprotein [multiple sclerosis associated retrovirus element]	gb AAD48374.1	57%	3	368
HOABP90	859622	57	blastx.2	(AF089895) cAMP-dependent protein kinase subunit R2 beta [Oryctolagus cuniculus]	gb AAF00037.1	40% 35%	225 542	437 652
HE8UE42	862010	58	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb CAA12176.1	97%	628	735
HUSJ59	862481	59	blastx.2	(AF070661) HSPC005 [Homo sapiens]	gb AAD20967.1	99%	15	1610
HSSDM07	863515	60	blastx.2	TcD37 homolog [Homo sapiens]	gb AAF04914.1 U67085_1	100%	80	316
HBCBW52	866444	61	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	94% 95% 95%	224 647 160	691 1090 225
HOGAS18	867969	62	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	69%	1498	1202
HHSDL18	869701	63	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF118094_21	79%	508	380
						65% 61% 67%	590 429 317	721 536 427

HLDOG81	874506	65	blastx.2	(AF153191) nm23-H7 [Homo sapiens]	gb AAD34622.1 AF1 53191.1	100%	1232	798
HTXQF81	874608	66	blastx.2	A4 protein [Homo sapiens]	gb AAA35499.1	29%	1208	813
HCRNG90	874787	67	blastx.2	5'-nucleotidase [Homo sapiens]	emb CAA39271.1	100%	173	628
HPWCL64	874891	68	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	98%	156	911
HWLMV6 2	874930	69	blastx.2	(AL137608) hypothetical protein [Homo sapiens]	emb CAB70840.1	93%	44	643
H2MAC06	874931	70	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1	31%	104	397
HWLRF06	875093	71	blastx.2	GCP170 [Homo sapiens]	dbj BAA23661.1	100%	170	763
HODDO41	875352	72	blastx.2	(AF064604) KE03 protein [Homo sapiens]	gb AAC17109.1	60%	23	373
HCHMQ74	875371	73	blastx.2	(AK001527) unnamed protein product [Homo sapiens]	dbj BAA91741.1	53%	3	383
HT3AI55	875682	74	blastx.2	(AK000219) unnamed protein product [Homo sapiens]	dbj BAA91018.1	80%	350	454
HMVBD68	876052	75	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	97%	3	440
HOCTA74	876487	76	blastx.2	propionyl-CoA carboxylase [Homo sapiens]	emb CAA32763.1	98%	4	504
						85%	207	103
						100%	65	292

HIS05	876686	77	blastx.2	(AJ270993) homeobox protein [Homo sapiens]	emb CAB65909.1	95%	511	849
HCRQM22	876696	78	blastx.2	hepatocyte nuclear factor-3/fork head homolog 11B [Homo sapiens]	gb AAC51129.1	66%	801	926
HLHTC92	877310	79	blastx.2	neuronal PAS2 [Homo sapiens]	gb AAB47250.1	84%	3	401
H2CAA49	879484	80	blastx.2	(AF053651) cellular apoptosis susceptibility protein [Homo sapiens]	gb AAC35297.1	97%	197	418
HETKQ94	880545	81	blastx.2	(AL132954) putative protein [Arabidopsis thaliana]	emb CAB75750.1	95%	142	201
HOFMO23	882466	82	blastx.2	(AF089745) FK506-binding protein [Homo sapiens]	gb AAC78853.1	32%	482	574
HNTNP58	882787	83	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF118094 21	100%	954	2108
HOFNY28	888480	84	blastx.2	AF-1 [Homo sapiens]	gb AAA16955.1	35%	53	838
HE8MQ01	889128	85	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF118094 21	23%	1556	2080
HE2RG21	891139	86	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	33%	1155	1298
HHENW77	894855	87	blastx.2	vacuolar proton-ATPase subunit M9.2	emb CAA75571.1	95%	14	499
						54%	14	499
						46%	14	454
						52%	194	499
						62%	2230	2391
						60%	2382	2480
						63%	18	476
						62%	416	658
						71%	2699	2490
						100%	59	553
						71%	99	338

HOFNU55	897344	88	blastx.2	[Homo sapiens] (AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	70%	654	544
HE8TE40	897862	89	blastx.2	Rabin3 [Rattus norvegicus]	gb AAA67890.1	87% 93%	152 1086	1114 1532
HNTCH73	900546	90	blastx.2	bone morphogenetic protein 2B [Homo sapiens]	gb AAA51835.1	100%	195	1418
HHFBY53	902534	91	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	95% 22% 20% 22% 20%	6 837 801 833 836	128 956 932 940 955
HDPIE44	904763	92	blastx.2	(AF200706) UNC-84A [Caenorhabditis elegans]	gb AAF15883.1 AF2 00706_1	47% 39% 25% 42%	1852 170 1375 109	2418 313 1524 171
HHSAX10	904783	93	blastx.2	delta-9 desaturase [Gallus gallus]	emb CAA42997.1	71%	9	680
HPIAX83	906066	94	blastx.2	weakly similar to E. nidulans bimA gene product (SP:P17885) [Caenorhabditis elegans]	gb AAA81143.1	39% 37% 19% 22% 21% 24%	1167 588 1776 1716 1653 2274	2459 1025 2474 2186 2093 2540
HOFNG28	908746	95	blastx.2	CD59 GLYCOPROTEIN	sp O62680 CD59_PI G	54%	51	401

					PRECURSOR (MEMBRANE ATTACK COMPLEX 1 (PROTECTIN).					
HOFB27	911947	96	blastx.2		(AL050283) hypothetical protein [Homo sapiens]	emb CAB43384.1	97%	640	1491	
HHBHJ45	913831	97	blastx.2		initiation factor 2 [Homo sapiens]	gb AAA67038.1	100%	11	1498	
HHPDV90	914163	98	blastx.2		(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942_1	53%	1122	874	
HWMMQ4 7	915068	99	blastx.2		(AB029042) ATPase inhibitor precursor [Homo sapiens]	dbj BAA88422.1	100%	53	232	
							100%	1614	1754	
HBGNY08	915214	100	blastx.2		(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	423	364	
							100%	423	367	
							100%	423	367	
							100%	423	367	
							77%	423	343	
							90%	423	364	
							84%	421	347	
							44%	308	222	
							33%	309	229	
							35%	332	249	
HODGH45	917394	101	blastx.2		(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	80%	819	938	
HWLKE58	917716	102	blastx.2		(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1	emb CAA20980.2	52%	275	496	

HRADL40	919433	103	blastx.2	dodecenoyl-CoA delta-isomerase [Homo sapiens]	emb CAA81066.1	100%	37	942
HOFMP73	919895	104	blastx.2	cathepsin B [Homo sapiens]	gb AAC37547.1	85%	113	1129
HOFMS02	920253	105	blastx.2	ATPase subunit 6 [Phoca vitulina]	emb CAA45262.1	54%	156	386
HUVHD12	921707	106	blastx.2	inositol polyphosphate 4-phosphatase [Rattus norvegicus]	gb AAB01069.1	35% 30% 60%	187 687 43	492 953 102
HMVDQ4 1	922191	107	blastx.2	(AL137496) hypothetical protein [Homo sapiens]	emb CAB70771.1	98% 99%	384 2	809 385
HODGI03	922879	108	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HODHD14	922955	109	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	60%	22	174
HODDC03	925296	110	blastx.2	ORF4 [Rattus norvegicus]	emb CAA37647.1	40% 58% 50%	126 344 307	245 433 336
HVCAG04	925735	111	blastx.2	(AF034633) GPR39 [Homo sapiens]	gb AAC26082.1	100% 29%	1281 1364	781 1293
HCRCE02	925837	112	blastx.2	putative p150 [Homo sapiens]	gb AAC51269.1	47% 50% 31% 40%	1 709 329 876	489 867 607 971
HHERA91	926067	113	blastx.2	(AK000530) unnamed protein product [Homo sapiens]	dbj BAA91234.1	100%	2031	2399

HAGDL82	928396	114	blastx.2	sapiens] (AK00496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75% 75%	5 210	208 257
HWBDS34	930484	115	blastx.2	Similar to S.cerevisiae hypothetical protein L3111 (S59316) [Homo sapiens]	dbj BAA13405.1	99%	57	983
H6ESA39	933568	116	blastx.2	BCDNA:LD21720 PROTEIN.	sp Q9XZ25 Q9XZ25	47% 26%	623 14	1150 169
HPCOR06	933678	117	blastx.2	ORFII [Homo sapiens]	emb CAA36480.1	73% 62% 56% 60%	99 310 28 266	266 459 144 310
HTFNO06	933989	118	blastx.2	(AC009177) unknown protein [Arabidopsis thaliana]	gb AAF27013.1 AC0 09177_3	39%	95	505
HODFY08	935520	119	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	45%	79	447
HRACK27	935717	120	blastx.2	(AL133045) hypothetical protein [Homo sapiens]	emb CAB61372.1	97%	681	1283
HRACW30	940639	121	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	93%	79	786
HOFOC32	941969	122	blastx.2	placental protein Diff33 [Homo sapiens]	emb CAB09783.1	84%	84	1502
HTTDM15	942511	123	blastx	(AL033127) hypothetical protein	emb CAA21869.1	27% 20%	62 759	427 959

					[Schizosaccharomyces pombe]			32%	965	1048
HOVAY63	944031	124	blastx.2		L1 retroposon, a portion of its ORF2 sequence [Rattus norvegicus]	emb CAA43593.1		65%	583	488
								43%	229	125
								34%	492	376
HDPFY41	946502	125	blastx.2		(AL050294) hypothetical protein [Homo sapiens]	emb CAB43393.1		94%	624	2072
								88%	1984	2037
								52%	2039	2113
HCOPB92	948608	126	blastx.2		ORF2, encodes a reverse transcriptase homolog [Homo sapiens]	gb AAB60345.1		60%	99	182
								51%	2	106
								66%	257	310
								64%	169	243
HBJHO83	948708	127	blastx.2		envelope polypeptide [Mus musculus]	gb AAA37565.1		46%	177	365
								45%	64	174
								85%	2	61
HWME04 4	948719	128	blastx.2		(AF038963) RNA helicase [Homo sapiens]	gb AAD19826.1		99%	3	1343
HFXJA96	949001	129	blastx.2		IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5		93%	40	135
HTLGV19	949574	130	blastx.2		human complement C1r [Homo sapiens]	gb AAA51851.1		46%	72	539
								36%	604	732
								25%	567	740
HMSAC18	950257	131	blastx.2		(AB023584) reduced expression in cancer [Homo sapiens]	dbj BAA88923.1		100%	29	919
HAPRB43	950475	132	blastx.2		(AF124522) tetraspan NET-2 [Homo sapiens]	gb AAD17317.1		100%	3	536

HCCMD55	956895	133	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	94%	225	115
HKADF15	960658	135	blastx.2	(AF179370) insulin- like growth factor binding protein 5 protease [Rattus norvegicus]	gb AAD52683.1 AF1 79370_1	94% 70% 32%	424 113 9	1551 499 155
HOGES55	961337	136	blastx.2	proline-rich protein [Mus musculus]	gb AAA53048.1	31% 33% 33% 33% 33% 27%	515 515 645 809 1099 1099	1117 1117 1397 1117 1452 1557
HKZAJ14	961458	137	blastx.2	(AL133051) hypothetical protein [Homo sapiens]	emb CAB61378.1	100%	219	1028
HLHAE14	962362	138	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	60% 38%	1969 1820	1805 1680
HBCJN16	965190	139	blastx.2	calcyphosine [Homo sapiens]	emb CAA66609.1	99%	38	346
HCGAF29	965372	140	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	97% 27% 53% 34% 60% 60% 60% 46% 36% 53%	32 473 2270 2226 2269 2273 2272 2269 2226 2270	1660 940 2308 2312 2313 2317 2316 2307 2315 2314

HBJAB02	967807	142	blastx.2	(AK000069) unnamed protein product [Homo sapiens]	dbj BAA90924.1	47%	1600	1665
HOUCR01	968171	143	blastx.2	similar to D.melanogaster peroxidase(U11052) [Homo sapiens]	dbj BAA13219.1	33% 36% 30%	8 428 8	646 718 241
HDTIG18	968454	144	blastx.2	(AB017644) ubiquitin-conjugating enzyme E2 [Homo sapiens]	dbj BAA76544.1	100%	391	1011
HBLGD30	968949	145	blastx.2	preceruloplasmin (EC 1.16.3.1) [Homo sapiens]	gb AAA51976.1	100% 40% 41%	1 106 1183	2187 1512 2184
HFIHK04	969387	146	blastx.2	(AK000200) unnamed protein product [Homo sapiens]	dbj BAA91005.1	94%	306	151
HE8NQ16	970046	148	blastx.2	F20D12.3 gene product [Caenorhabditis elegans]	gb AAA81672.1	38% 36% 25% 25%	359 1259 2021 974	1099 1891 2653 1102
HOFMS34	973010	149	blastx	hPMSR6 [Homo sapiens]	gb AAA97460.1	59% 66%	324 552	536 605
HOF0B11	973505	150	blastx.2	15 KD SELENOPROTEIN PRECURSOR.	sp O60613 SE15_HUMAN	95%	18	503
HTLHN94	974667	151	blastx.2	(AB012955) KIP2 [Homo sapiens]	dbj BAA33584.1	99%	444	812
HLDRT31	975754	152	blastx.2	hepatocyte growth	gb AAA50165.1	90%	91	639

HWLHW8 6	975771	153	blastx.2	factor-like protein [Homo sapiens]		50%	100	579
				epithelial glycoprotein (EGP) precursor [Homo sapiens]	gb AAA35723.1	100%	245	1186
HOFNM53	976051	154	blastx.2	(AL110276) hypothetical protein [Homo sapiens]	emb CAB53711.1	37%	498	1094
HDPSE86	976207	155	blastx	(AF086713) rasGAP- activating-like protein [Homo sapiens]	gb AAD09006.1	83%	757	1311
						91%	1	420
						96%	508	774
						83%	401	511
						30%	361	450
						42%	1	42
HHFOE18	976216	156	blastx.2	(AL117664) hypothetical protein [Homo sapiens]	emb CAB56034.1	52%	376	1275
						35%	14	139
HHFNH27	976968	157	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	98%	26	589
						100%	3	26
HMMBZ8 1	977264	158	blastx.2	alternatively spliced product using exon 13A [Homo sapiens]	gb AAB49034.1	52%	545	369
HSLGF32	977704	159	blastx.2	(AL133063) hypothetical protein [Homo sapiens]	emb CAB61387.1	52%	2	250
HODFU73	978812	161	blastx.2	myeloid ecotropic viral integration site-1b	gb AAA85509.1	94%	371	652

HNBUA49	978998	162	blastx.2	[Mus musculus] (AF085356) putative RNA helicase [Homo sapiens]	gb AAD40191.1	97% 38%	365 130	1282 183
HVVDU73	979346	163	blastx.2	ladinin [Homo sapiens]	gb AAB58817.1	99%	53	1603
HHESX72	979468	164	blastx.2	(AK001665) unnamed protein product [Homo sapiens]	dbj BAA91821.1	96%	202	480
HOCYP88	979547	165	blastx.2	(AF035299) similar to GAP binding protein p62do [Homo sapiens]	gb AAB88182.1	100%	136	939
HOGDC64	979666	166	blastx.2	kinase A anchor protein [Homo sapiens]	emb CAA66000.1	100% 40% 45%	236 1 40	769 165 204
HSIEA14	980139	167	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	72% 70% 68%	613 783 667	482 673 620
HSPSY43	980269	168	blastx.2	alphaII spectrin [Rattus norvegicus]	emb CAA62350.1	100%	937	1659
HSXBH24	981029	169	blastx.2	(AF181645) BcDNA.GH12144 [Drosophila melanogaster]	gb AAD55431.1 AF1 81645_1	44% 36% 28% 26% 31% 22% 35% 23%	301 1207 1684 1702 1609 1711 1819 1867	1263 2148 2040 2067 1896 2061 1962 2157
HOFAE61	981108	170	blastx.2	predicted using Genefinder; Similarity to E.coli guanosine-3',	emb CAB05030.1	59% 71% 50%	173 5 727	430 88 822

HCFOF82	981272	171	blastx.2	1 [Caenorhabditis elegans] (AL133558) hypothetical protein [Homo sapiens]	emb CAB63713.1	98%	2	901
HOCMT79	981309	172	blastx.2	similar to yeast Sec6p, Swiss-Prot Accession Number P32844; 1 1 norvegicus]	gb AAA85505.1	94% 96%	481 2	1413 481
HKAEI03	981319	173	blastx.2	Wiskott-Aldrich Syndrome Protein [Mus musculus]	gb AAC52556.1	35% 39% 40% 55% 34%	392 233 407 306 288	6 6 300 253 211
HOCPO31	981593	174	blastx.2	(AF015037) endooligopeptidase A related protein; EOPA related protein [Oryctolagus cuniculus]	gb AAB99905.1	79%	381	812
HAOTG88	981606	175	blastx.2	No definition line found [Escherichia coli]	gb AAC43132.1	100%	217	2
HVCAH21	981768	176	blastx.2	(AF044956) NADH:ubiquinone oxidoreductase B22 subunit [Homo sapiens]	gb AAD42057.1 AF0 44956_1	100%	80	616
HFPCK56	981812	177	blastx.2	(AF099664) Cdc42 effector protein 4 [Homo sapiens]	gb AAD16299.1	88%	3	125

HAOSJ58	981859	178	blastx.2	(AF271784) chromokinesin. [Homo sapiens]	emb CAB75427.1	87%	24	482
HOPJT48	981862	179	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	321	250
						91%	318	247
						95%	316	245
						100%	350	285
						100%	349	284
						100%	348	283
						100%	345	280
						100%	347	282
						100%	346	281
						100%	342	277
						100%	344	279
						100%	343	278
						100%	340	275
						100%	339	274
						100%	341	276
						100%	336	271
						100%	338	273
						100%	337	272
						100%	335	270
						100%	333	268
						100%	334	269
						100%	330	265
						100%	331	266
						100%	332	267
						100%	327	262
						100%	328	263
						100%	329	264

HCFV61	981914	180	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1	100%	324	259
HOVJY54	982032	182	blastx.2	similar to cuticle collagen [Caenorhabditis elegans]	emb CAA91932.1	36%	593	156
HE8MM52	982197	184	blastx.2	(AL023828) cDNA EST yk289g5.5 comes from this gene; cDNA EST 1 1 yk653f1.5 comes from this gene; cDNA EST EMBL:C07875 comes from th	emb CAA19455.1	48%	628	1137
HJBCC19	982465	185	blastx.2	(AK000516) unnamed protein product [Homo sapiens]	dbj BAA91222.1	99%	503	949
HODAA93	982618	186	blastx.2	(AJ224979) MTMR1 [Homo sapiens]	emb CAA12271.1	96%	63	737
HSPSI74	982764	187	blastx.2	L6 [Homo sapiens]	gb AAA36158.1	100%	100	705
HCEHZ42	983008	188	blastx.2	unknown [murine herpesvirus 68]	gb AAB66420.1	32%	2124	3170
						38%	1167	1451
						38%	1167	1451

						38%	1167	1451
						38%	1167	1451
						38%	1167	1451
						32%	2127	2414
						39%	2140	2304
						35%	94	375
						35%	94	375
						35%	94	375
						37%	116	334
						37%	116	334
						37%	116	334
						37%	116	334
						34%	620	817
						34%	620	817
						34%	620	817
						34%	620	817
						34%	620	817
						37%	7	135
						37%	7	135
						38%	1234	1422
						38%	1234	1422
						38%	1234	1422
HDPVU15	983592	189	blastx.2	replication factor C, 37-kDa subunit [Homo sapiens]	gb AAB09785.1	100%	72	686
						100%	685	954
						100%	1025	1138
						100%	1216	1308
HT5GC28	984008	190	blastx.2	alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]	emb CAA65358.1	60%	34	423
						58%	248	421

HDABW5 0	984168	191	blastx.2	t-complex polypeptide 1 (AA 1-556) [Homo sapiens]	emb CAA37064.1	100%	185	451
HAQBH11	985043	192	blastx.2	(AJ243177) Xenopus RPA interacting protein alpha [Xenopus laevis]	emb CAB45690.1	42% 46% 46% 28% 35%	393 110 238 244 247	626 244 393 369 336
HMVAW4 2	985280	193	blastx.2	extensin-like protein [Zea mays]	emb CAA84230.1	28%	960	10
HAGDF03	985323	194	blastx.2	neuromedin U [Homo sapiens]	emb CAA53619.1	100%	169	690
HOPKI29	985401	195	blastx.2	(AF087135) F1FO-type ATPase subunit d [Homo sapiens]	gb AAC36338.1	100%	65	547
HAJCA11	985580	196	blastx.2	GTBP-ALT [Homo sapiens]	dbj BAA23673.1	98% 97%	394 2	1293 391
HWAHA1 1	986078	197	blastx.2	(AB031292) proteolipid protein 2 [Mus musculus]	dbj BAA83500.1	31%	134	511
HSAMI43	986158	198	blastx.2	(AF111423) chromosome condensation protein XCAP-G [Xenopus laevis]	gb AAD09819.1	54% 53%	14 14	1471 1387
HNFJH73	986165	199	blastx.2	erm [Homo sapiens]	emb CAA65246.1	100%	1	591
HNTCH03	986328	200	blastx.2	put. ORF [Homo sapiens]	emb CAA39297.1	48% 70%	103 651	363 680
HSUAA20	986744	201	blastx.2	replication protein A ₃	gb AAA36584.1	100%	2	1312

					70-kDa subunit [Homo sapiens]			100%	1315	1347
HSPAD08	986767	202	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens)	emb CAB37641.1			100%	905	1054
HFKBA32	987018	203	blastx.2	(AL121740) hypothetical protein [Homo sapiens]	emb CAB57330.1			76% 83%	256 540	1092 743
HHFLU49	987071	204	blastx.2	(AF068749) sphingosine kinase [Mus musculus]	gb AAC61698.1			46%	278	718
HOENX16	987112	205	blastx.2	helix-loop-helix protein [Homo sapiens]	emb CAA69255.1			100%	368	850
HTFOW71	987165	206	blastx.2	(AF121862) sorting nexin 13 [Homo sapiens]	gb AAD27835.1 AF121862_1			96% 88%	38 3	400 53
HTTAG03	987262	207	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1			94% 47% 41% 44% 36% 33% 37% 61%	57 81 663 492 801 516 195 1228	1289 476 1238 857 1061 812 428 1278

HNTNN89	987577	208	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	98% 77% 100%	110 543 2	547 713 115
HRADQ96	987636	209	blastx.2	(AF134726) NG23 [Homo sapiens]	gb AAD21821.1	96% 100%	303 6	398 29
HLDCJ16	987808	210	blastx.2	3-oxoacyl-[acyl-carrier- protein] reductase (EC 1.1.1.100). [Escherichia coli]	dbj BAA35901.1	39%	159	761
HCOPH23	987900	211	blastx.2	nucleoporin-like protein [Homo sapiens]	emb CAA61667.1	94%	289	447
HEEAQ78	988159	212	blastx.2	TBX2 [Homo sapiens]	gb AAA73861.1	99% 98% 33% 29% 29%	164 1 12 206 260	475 165 191 394 403
HOFNY16	988363	213	blastx.2	(AL110239) hypothetical protein [Homo sapiens]	emb CAB53690.1	99% 100%	242 144	853 236
HSLCX45	988441	214	blastx.2	(AB006572) RPB5 meidating protein [Homo sapiens]	dbj BAA34781.1	98%	106	1404
HLMBJ09	988499	215	blastx.2	cDNA EST yk575f9.3 comes from this gene [Caenorhabditis elegans]	emb CAA94859.1	39% 34%	270 496	491 591
HOVEF60	988526	216	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	75% 36%	377 11	598 298
HOGDR72	988536	217	blastx.2	RNA polymerase II transcription factor SIII	gb AAA75522.1	100%	62	415

HOCMF20	988556	218	blastx.2	p18 subunit [Homo sapiens] high mobility group protein 2a [Homo sapiens]	emb CAA71143.1	99%	1	366
HAMHH2 6	988737	219	blastx.2	MHC Class I region proline rich protein [Homo sapiens]	gb AAB40147.1	98%	429	728
HHFOX44	988904	220	blastx.2	binding protein [Homo sapiens]	emb CAA00862.1	99% 52% 56% 28% 36% 31% 45%	153 308 804 67 88 637 48	587 907 956 222 318 789 107
HPWDE54	989029	221	blastx.2	(AJ252060) TRABID protein [Homo sapiens]	emb CAB64449.1	97%	1	2127
HNOAX46	989183	222	blastx.2	Berg36 [Homo sapiens]	emb CAA67781.1	100%	49	789
HCQCB28	989280	223	blastx.2	(AK00385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	60% 77% 57%	471 301 1148	292 167 1107
HOOJB32	989321	224	blastx.2	(AB007619) EBAG9 [Homo sapiens]	dbj BAA22572.1	100%	535	1173
HMTWJT35	989323	225	blastx.2	Leu2 [Homo sapiens]	emb CAA75516.1	93% 100% 72%	312 551 260	410 607 346
HHFIA95	989396	226	blastx.2	(AB002533) Qip1 [Homo sapiens]	dbj BAA19546.1	92% 24% 47% 35%	120 279 1 5	1178 974 216 121

HSPSH36	989607	227	blastx.2	transcription factor ILF [Homo sapiens]	emb CAA43200.1	94%	77	247
HAAAA25	989952	228	blastx.2	p67 myc protein [Homo sapiens]	dbj BAA01374.2	100%	250	282
HTMJ16	990060	229	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	97%	361	618
HWLAB90	990146	230	blastx.2	(AF067817) VAV-3 protein [Homo sapiens]	gb AAC79695.1	98%	2	652
HOSED43	990184	231	blastx.2	(AK001851) unnamed protein product [Homo sapiens]	dbj BAA91941.1	89%	622	813
						100%	2	790
HNODF50	990254	232	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	100%	616	1155
						93%	187	528
						100%	116	181
HLWBV17	990255	233	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	100%	282	542
						78%	123	206
						57%	26	88
HOCQH66	990435	234	blastx.2	collagen type VI, alpha 3 chain [Homo sapiens]	emb CAA36267.1	98%	43	2745
						43%	40	330
						40%	40	330
						45%	43	327
						46%	49	330
						44%	43	327
						47%	46	330
						48%	46	330
						45%	46	330
						46%	46	330
						43%	49	339
						44%	49	327
						41%	43	327

HOGDC67	990546	235	blastx.2	pyrroline-5-carboxylate reductase [Homo sapiens]	gb AAA36407.1	48% 41% 41% 41% 43% 26% 26% 42%	85 46 49 46 49 391 1117 531	330 327 327 333 327 960 1587 647
HCDBO02	990609	236	blastx.2	TIP120 [Rattus norvegicus]	dbj BAA13432.1	97% 66%	10 131	3258 202
HODGN92	990611	237	blastx.2	coded for by C. elegans cDNA yk38h3.5; coded for by C. elegans 11 [Caenorhabditis elegans]	gb AAA83581.1	37%	107	499
HPDRP30	990751	238	blastx.2	(AL122073) hypothetical protein [Homo sapiens]	emb CAB59248.1	99%	1436	2098
HBXFN09	990769	239	blastx.2	ORF 3 [Homo sapiens]	gb AAA58464.1	42% 71%	65 43	226 63
HDTBO75	990913	240	blastx.2	(AF065391) ZIS1 [Homo sapiens]	gb AAD09746.1	100% 39% 45% 32% 36% 33% 21%	241 4 13 1 1 13 4	324 72 72 75 72 75 72

HELGN26	991014	241	blastx.2	(AF123653) FEZ1 [Homo sapiens]	gb AAD23834.1 AF1 23653_1	47%	192	902
						52%	32	181
						38%	171	470
HODCU15	991048	242	blastx.2	(AF213822) hypothetical protein [Zymomonas mobilis]	gb AAF23786.1 AF2 13822_1	42%	1104	1550
						56%	1552	1710
						27%	1747	1929
HOGDI51	991268	243	blastx.2	(AF007872) torsinB [Homo sapiens]	gb AAC51733.1	100%	238	492
						92%	607	873
						69%	803	940
HLWAF02	991516	244	blastx.2	(AK001371) unnamed protein product [Homo sapiens]	dbj BAA91655.1	100%	192	449
HRKPA16	991654	245	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	76%	263	24
HPDQX94	991761	246	blastx.2	microsomal glutathione S-transferase 2 [Homo sapiens]	gb AAC51768.1	100%	210	650
HEAAY09	992678	247	blastx.2	TSC-22 [Homo sapiens]	dbj BAA07598.1	96%	40	333
HPDRH78	992780	248	blastx.2	(AK000474) unnamed protein product [Homo sapiens]	dbj BAA91189.1	100%	598	903
						79%	933	1079
HODFO57	992973	250	blastx.2	(AF176524) F-box protein FBL10 [Mus musculus]	gb AAF09133.1	67%	8	811
HOCpz44	993380	251	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	99%	157	540
HPAMU38	993403	252	blastx.2	cDNA EST	emb CAB04720.1	48%	111	407

					yk269g12.5 comes from this gene; cDNA EST EMBL:D27364.1 comes from this gene; cDNA EST EMBL:D36272 comes fr					30%	450	803
										37%	20	91
HNGGK47	993602	253	blastx.2	(AF126163) HHLA3 protein [Homo sapiens]	gb AAD33288.1 AF126163.1	78%	277	372				
HODGN51	993754	254	blastx.2	putative p150 [Homo sapiens]	gb AAC51261.1	64%	124	549				
						65%	77	205				
						48%	3	134				
						69%	545	613				
HODCT60	993806	255	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	56%	239	382				
						50%	624	671				
HAQBV81	993918	256	blastx.2	putative [Rattus norvegicus]	emb CAA52297.1	43%	3	695				
HDTGF49	993931	257	blastx.2	(AK002081) unnamed protein product [Homo sapiens]	dbj BAA92074.1	87%	1073	1531				
HOGBN62	994134	258	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952.1	95%	155	295				
						95%	12	155				
						43%	421	558				
HSKGR42	994234	259	blastx.2	(AK000741) unnamed protein product [Homo sapiens]	dbj BAA91354.1	73%	147	536				
						96%	1	153				
						56%	412	528				
						51%	413	499				
						34%	291	404				
						28%	273	377				

HOEBQ85	994356	260	blastx.2	(AL117435) hypothetical protein [Homo sapiens]	emb CAB55923.1	28% 32% 97%	316 291 3	468 437 362
HOPJG01	994536	261	blastx.2	creatine kinase B [Homo sapiens]	emb CAA33389.1	100%	1	1134
HKBAK06	994596	262	blastx.2	Cks1 protein homologue [Homo sapiens]	emb CAA38702.1	100% 81%	231 67	410 144
HKGCN61	994664	263	blastx.2	NifU-like protein [Homo sapiens]	gb AAC50885.1	100%	169	531
HFOYI37	994776	265	blastx.2	ribosomal protein [Homo sapiens]	dbj BAA03400.1	100%	85	513
HOFNL18	994874	266	blastx.2	(AL031432) dJ465N24.1 (PUTATIVE novel protein similar to predicted yeast and worm proteins) [Homo sapiens]	emb CAB37991.1	84%	43	339
HOFNT57	994954	267	blastx.2	phosphate cyclase [Homo sapiens]	emb CAA72364.1	98% 93%	273 124	1157 270
HCBMT45	994993	268	blastx.2	lin-10 protein homolog [Rattus norvegicus]	gb AAB51383.1	96%	46	1311

HATDZ56	995200	269	blastx.2	(AL031668) dJ64K7.2 (eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD)) [Homo sapiens]	emb CAB43741.1	100%	156	1154
HOCQI44	995229	270	blastx.2	(AL050348) dJ447F3.2 (ubiquitin-conjugating enzyme E2 H10) [Homo sapiens]	emb CAB66118.1	92%	8	520
HNOJG43	995562	271	blastx.2	alpha 4 protein [Homo sapiens]	emb CAA70119.1	99%	73	981
HSPSB95	995590	272	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	99%	47	838
HCORG29	995806	273	blastx.2	SRp30c [Homo sapiens]	gb AAA93069.1	100%	100	762
HCRNO02	995894	274	blastx.2	N8 GENE PRODUCT LONG ISOFORM, N8L PROTEIN=D52 I HK4A1]	sp G1488414 G14884 14	74% 63%	33 2	149 34
HCBOI79	996247	275	blastx.2	(AK00857) unnamed protein product [Homo sapiens]	dbj BAA91400.1	80% 100%	99 419	506 637
HVCAB73	996337	276	blastx.2	NF45 protein [Homo sapiens]	gb AAA20993.1	94% 70%	90 1175	1307 1297
HSDJH04	996619	277	blastx.2	RNA polymerase II subunit [Homo sapiens]	gb AAA91459.1	100%	219	419
HSOAN18	996804	278	blastx.2	(AB030654) AP-4 clathrin adaptor-related complex sigma4 subunit [Homo sapiens]	dbj BAA82970.1	100%	1	222

HHEHF49	996874	279	blastx.2	L-lactate permease [Escherichia coli]	gb AAA03583.1	91%	770	222
HCHCF36	996903	280	blastx.2	rac protein kinase-beta [Homo sapiens]	gb AAA36585.1	96%	1	456
HAHCK58	997127	281	blastx.2	(AK001138) unnamed protein product [Homo sapiens]	dbj BAA91517.1	98%	1	228
HETIJ06	997165	282	blastx.2	(AF152097) CGI-05 protein [Homo sapiens]	gb AAD34147.1 AF1 52097_1	97%	218	352
HAPOE30	997595	283	blastx.2	nuclear protein SA-1 [Homo sapiens]	emb CAA99731.1	100% 88%	244 11	759 244
HRGDC33	997862	284	blastx.2	C13F10.7 gene product [Caenorhabditis elegans]	gb AAC47967.1	34% 44%	301 301	735 648
HMTMB9 1	997873	285	blastx.2	(AC004858) U1 small ribonucleoprotein 1SNRP homolog; match to PID:g4050087 [Homo sapiens]	gb AAF19255.1 AC0 04858_3	100% 41%	1037 487	1174 555
HFAAD07	998059	286	blastx.2	(AJ132948) rfg7 protein [Homo sapiens]	emb CAB55313.1	97% 97%	274 32	957 298
HE8TG67	998517	287	blastx.2	product is related to clathrin-associated protein. [Homo sapiens]	dbj BAA09762.1	97% 97%	1226 502	1360 618
HACNC39	998533	288	blastx.2	weak similarity to Arabidopsis thaliana ubiquitin-like protein 8 [Caenorhabditis elegans]	gb AAB42266.1	80%	162	380

HCOQP78	998901	289	blastx.2	(AB008927) neuropsin type2 [Homo sapiens]	dbj BAA82666.1	100%	75	989
HCGMA67	998905	290	blastx.2	rab8 [Canis familiaris]	emb CAB56776.1	100%	47	664
HSKFK19	998968	291	blastx.2	(AC004890) similar to HUB1; similar to BAA24380 (PID:g2789430) [Homo sapiens]	gb AAD45825.1 AC004890_2	98% 38% 54% 70%	2 566 1095 558	466 721 1160 587
HAGGR59	999124	292	blastx.2	histone H1-I [Volvox carteri]	gb AAA74723.1	36%	270	596
HOPKS83	999148	293	blastx.2	(AF026124) schwannoma-associated protein [Mus musculus]	gb AAC73069.1	93%	425	1894
HE8CY70	999157	294	blastx.2	SEP PROTEIN (FRAGMENT).	sp Q15352 Q15352	100% 92% 66% 48%	691 32 3 635	1368 691 128 706
HPCTI53	999243	295	blastx.2	(AJ250562) tetraspanin protein [Homo sapiens]	emb CAB65594.1	88% 100%	34 474	546 779
HOPKN50	999313	296	blastx.2	(AF017790) retinoblastoma-associated protein HEC [Homo sapiens]	gb AAB80726.1	95%	152	1702
HAPAI17	999778	297	blastx.2	(AK001832) unnamed protein product [Homo sapiens]	dbj BAA91931.1	97%	2	115
HHAUUV59	999808	298	blastx.2	p116Rip [Mus musculus]	gb AAB18198.1	79% 67% 21%	95 547 1454	1903 801 1669

HTXLL31	1000315	299	blastx.2	(AK001770) unnamed protein product [Homo sapiens]	dbj BAA91897.1	36% 27% 26% 39%	663 666 4 481	992 1379 645 621
HDPUH64	1000339	300	blastx.2	CRAg protein [Drosophila melanogaster]	emb CAA76938.1	42% 66% 65%	8 525 475	598 692 534
HTTHS93	1000424	301	blastx.2	(AL117183) conserved hypothetical protein [Schizosaccharomyces pombe]	emb CAB54870.1	25% 36%	55 755	720 994
HMVCG79	1000582	302	blastx.2	(AJ387747) sialin [Homo sapiens]	emb CAB62540.1	100%	3	854
HODHK20	1000669	303	blastx.2	(AF176555) A-kinase anchoring protein 220 [Homo sapiens]	gb AAF07045.1 AF176555_1	94%	76	627
HCHMO53	1000875	304	blastx.2	(AK000462) unnamed protein product [Homo sapiens]	dbj BAA91181.1	41%	296	556
HFKKG84	1001066	305	blastx.2	(AF047002) transcriptional coactivator ALY [Homo sapiens]	gb AAD09608.1	98%	1	666
HOFMT20	1001333	306	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1	48%	40	237
HPAMB04	1001695	307	blastx.2	17-kDa protein [Homo sapiens]	gb AAA36038.1	99%	127	621
HODEK48	1001901	308	blastx.2	pol [porcine endogenous retrovirus]	emb CAA76582.1	41% 33%	398 25	721 423

HVVCB28	1001954	309	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	100%	373	807
HCOOS01	1002071	310	blastx.2	proliferation associated gene (pag) [Homo sapiens]	emb CAA48137.1	100%	105	701
HDACA35	1002096	311	blastx.2	(AK001496) unnamed protein product [Homo sapiens]	dbj BAA91724.1	73%	23	652
HOVDG59	1002328	312	blastx.2	(AK001610) unnamed protein product [Homo sapiens]	dbj BAA91787.1	100% 28%	13 40	639 588
HTIAD78	1002459	313	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	98%	64	1041
HCDCF69	1002468	314	blastx.2	lysyl hydroxylase [Homo sapiens]	gb AAA60116.1	98%	353	508
HPTTW90	1002479	315	blastx.2	Huntington's Disease (HD) gene [Homo sapiens]	emb CAA93701.1	99%	3	356
HSUBG36	1002492	316	blastx.2	snRNP E protein (AA 1-92) [Homo sapiens]	emb CAA31007.1	100%	67	342
HODFU72	1002527	317	blastx.2	(AB022660) SET- binding protein (SEB) [Homo sapiens]	dbj BAA82444.1	32%	57	689
HCNSF57	1002545	318	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40940.1	96%	134	826
HODJU13	1002546	319	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	85%	2	106

HODIL25	1002551	320	blastx.2	nuclear protein, NP220 [Homo sapiens]	dbj BAA11748.1	99%	207	1556
HUVHS56	1002563	321	blastx.2	(AF097441) phenylalanine-tRNA synthetase [Homo sapiens]	gb AAC83802.1	100%	174	755
HPMJQ18	1002565	322	blastx.2	unnamed protein product [unidentified]	emb CAB69299.1	91%	407	823
HLHCI46	1002591	323	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	53%	209	247
HAOSD18	1002607	324	blastx.2	homologue to elongation factor 1- gamma from A.salina [Homo sapiens]	emb CAA45089.1	100%	153	923
HACNG47	1002610	325	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	86	361
HOPIX95	1002729	326	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	244	681
HSCLR05	1002807	327	blastx.2	HKR-T1 [Homo sapiens]	gb AAB24264.2	58%	3	176
						42%	3	281
						51%	3	215
						41%	591	659
HVVAO74	1002811	328	blastx.2	clathrin light-chain A [Homo sapiens]	gb AAA59505.1	100%	178	831
HVVBK18	1003155	330	blastx.2	proteasome subunit Hsc7-1 [Homo sapiens]	dbj BAA05646.1	100%	323	925
HSCLM55	1003224	332	blastx.2	(AC004983) similar to PID:g3877944 [Homo sapiens]	gb AAD15546.1	100%	28	768

HETJU23	1003706	333	blastx.2	(AL133630) hypothetical protein [Homo sapiens]	emb CAB63754.1	99%	881 504 64 373 878 1121 343	1477 881 513 507 1084 1327 459
HNOKB73	1004480	334	blastx.2	(AF026692) frpHE [Homo sapiens]	gb AAC04617.1	93%	18	515
HODFB06	1004583	335	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41%	362	760
						51%	3	143
						63%	135	191
						51%	265	360
						70%	200	259
HODJA76	1004619	336	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685 1	56%	171	293
HODJY60	1004625	337	blastx.2	putative [Homo sapiens]	gb AAC37567.1	38%	277	453
						100%	141	683
HODEF10	1004627	338	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	69%	10	135
HODFB03	1004631	339	blastx.2	DNA primase (p58 subunit) [Homo sapiens]	emb CAA52378.1	90%	1	789
HPMLN08	1004632	340	blastx.2	(AF027728) kinesin- related protein [Xenopus laevis]	gb AAC60300.1	25%	518	1165
						26%	135	533
						24%	524	1051
						23%	524	1060
HODEH08	1004633	341	blastx.2	(AK001410) unnamed protein product [Homo sapiens]	dbj BAA91675.1	87%	22	369

HEGBF25	1004635	342	blastx.2	(AF069736) PCAF associated factor 65 beta [Homo sapiens]	gb AAC39906.1	98%	165	758
HODJB51	1004643	343	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	52%	405	142
HODEC38	1004648	344	blastx.2	(AJ010089) GANP protein [Homo sapiens]	emb CAB52687.1	97% 52% 62% 87%	68 1993 2055 2030	208 2175 2150 2053
HODIQ24	1004660	345	blastx.2	(AK001892) unnamed protein product [Homo sapiens]	dbj BAA91965.1	100%	3	236
HVVDD56	1004887	346	blastx.2	gpStaf50 [Homo sapiens]	emb CAA57684.1	97% 66%	435 1204	1238 1245
HTHDV01	1004950	347	blastx.2	c-fos protein [Homo sapiens]	gb AAA52471.1	100%	153	1292
HVVDJ95	1005153	348	blastx.2	Ral guanine nucleotide dissociation stimulator [Homo sapiens]	gb AAA52360.1	80%	185	400
HODIY29	1005236	349	blastx.2	DNA-binding protein 5 - human	pir S26650 S26650	97% 89% 57% 59% 53% 52% 58% 48% 43% 65%	1 13 1 4 19 4 4 4 1 4	963 963 453 453 453 444 408 453 453 276

HOELP29	1005359	350	blastx.2		uridine kinase [Mus musculus]	gb AAB50568.1	41%	1	444
HWLFG04	1005384	351	blastx.2		tax1-binding protein TXBP151 [Homo sapiens]	gb AAA75595.2	100%	25	441
HYAAC49	1005511	352	blastx.2		(AF001628) interactor protein AbBP4 [Homo sapiens]	gb AAD00897.1	97%	309	1013
							93%		688
							727		727
							33%		688
							88%		111
							70%		749
							100%		737
							100%		740
							87%		740
HCOOA71	1005843	353	blastx.2		nuclear autoantigen fo 14 kDa [Homo sapiens]	emb CAB09660.1	76%	68	205
HOUFB45	1005974	354	blastx.2		(AF072441) calcineurin binding protein cabin 1 [Homo sapiens]	gb AAD40846.1 AF072441_1	98%	2	403
HUSJI14	1006018	355	blastx.2		(AK001676) unnamed protein product [Homo sapiens]	dbj BAA91829.1	99%	411	2081
							98%	40	381
							54%	377	448
HMCDB21	1006055	356	blastx.2		alpha1A-voltage-dependent calcium channel [Homo sapiens]	gb AAB49678.1	100%	435	509
HSDEY08	1006142	357	blastx.2		SWI/SNF complex 60 KDa subunit [Homo sapiens]	gb AAC50697.1	92%	573	1037
							80%	136	603

					sapiens]				47%	158	403
HOOJT92	1006215	358	blastx.2	(AC007055) unknown [Homo sapiens]		gb AAD31938.1 AC0 07055 3		37%	105	377	
HNQRE03	1006250	359	blastx.2	(AK000927) unnamed protein product [Homo sapiens]		dbj BAA91430.1		27%	666	773	
HPCTS21	1006317	360	blastx.2	(AE001373) predicted secreted protein [Plasmodium falciparum]		gb AAC71813.1		34%	323	418	
								97%	44	172	
								100%	4	669	
								27%	237	1049	
								22%	177	1187	
HFATL31	1006399	361	blastx.2	light chain 3 subunit of microtubule-associated proteins 1A and 1B [Rattus norvegicus]		gb AAA20645.1		82%	146	505	
HE2JE77	1006445	362	blastx.2	(AF078848) BUP [Homo sapiens]		gb AAD44480.1		100%	2	328	
HCBNX87	1006470	363	blastx.2	(AL137735) hypothetical protein [Homo sapiens]		emb CAB70899.1		99%	1	420	
HNTDJ68	1006483	364	blastx.2	l(3)mbt protein homolog [Homo sapiens]		gb AAC69438.1		64%	3	626	
								41%	628	1410	
								44%	3	533	
								40%	201	611	

HTRAA05	1006512	365				blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	60%	631	840
HMTAL96	1006635	366				blastx.2	ras-like protein [Homo sapiens]	gb AAA36547.1	98%	90	515
HDTJP21	1006858	367				blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF09042_1	67% 73%	17 126	136 215
HISEQ81	1006943	368				blastx.2	(AF009668) polyprotein [multiple sclerosis associated retrovirus]	gb AB66528.1	83% 70% 87%	247 435 514	17 235 395
HODFH02	1006953	369				blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dj BAA92096.1	74% 52%	346 426	438 488
HOCPP18	1007230	370				blastx.2	(AF150100) small zinc finger-like protein [Homo sapiens]	gb AAD40006.1 AF150100_1	100%	305	571
HODFP91	1007941	371				blastx.2	SpZ12-1 [Strongylocentrotus purpuratus]	gb AAA85705.1	27%	69	806
H6EDU06	1007976	372				blastx.2	(AF151894) CGI-136 protein [Homo sapiens]	gb AAD34131.1 AF151894_1	99%	75	449
HPCRD26	1008013	373				blastx.2	predicted using Genefinder; Similarity to Yeast mitochondrial 1 1 yk432a4.3 comes	emb CAB02879.1	35% 44%	423 1220	1229 1294

HSIEH63	1008027	374	blastx.2	from this gene; cDNA EST yk432a4 (AF007791) secreted cement gland protein XAG-2 homolog [Homo sapiens]	gb AAC77358.1	65%	87	554
HPASD51	1008071	375	blastx.2	PDI (E.C.5.3.4.1) [Bos taurus]	gb AAA30690.1	33%	81	752
HCOQH27	1008154	376	blastx.2	IEF SSP 9502 [Homo sapiens]	gb AA65201.1	100%	131	1315
HCOPZ14	1008179	378	blastx.2	guanylate kinase [Homo sapiens]	gb AAC37598.1	84%	889	1023
HODEC78	1008299	379	blastx.2	bicaudal-D [Homo sapiens]	gb AAB94805.1	94% 97% 40% 72% 20% 35% 21% 25% 39%	379 1203 319 1351 328 1191 328 856 328	1230 1343 744 1470 1188 1343 792 1056 396
HODEF29	1008304	380	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	80% 22%	38 202	133 330
HODEF78	1008314	382	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	3	101
HODEL83	1008324	383	blastx.2	pol gene protein; Xxx [Homo sapiens]	gb AAA88026.1	76%	132	407
HHPH76	1008325	384	blastx.2	(AF019386) heparan sulfate 3-O- sulfotransferase-1	gb AAB84388.1	100%	286	1206

					precursor [Homo sapiens]					
HGBE52	1008326	385	blastx.2		T2 [Mus musculus]	emb CAA48048.1	29%	782	408	
HBQAB30	1008327	386	blastx.2		alternatively spliced [Homo sapiens]	gb AAA35654.1	33%	661	407	
HLHCB31	1008332	387	blastx.2		matrix metalloproteinase, MT2MMP [Homo sapiens]	dbj BAA13071.1	93%	24	737	
HPFDV51	1008335	388	blastx.2		(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	97%	1	558	
HODEG13	1008337	390	blastx.2		unknown protein [Homo sapiens]	gb AAA88038.1	66% 69%	62 3	217 71	
HHPFK16	1008345	391	blastx.2		Krueppel-related DNA-binding protein [Homo sapiens]	gb AAA52689.1	65% 66% 67%	2 183 341	214 341 478	
HARAL81	1008349	392	blastx.2		(AF090894) PRO0113 [Homo sapiens]	gb AAF24018.1 AF090894_1	79% 65%	166 387	405 470	
HFTAU42	1008350	393	blastx.2		(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	55% 55% 59% 55% 54%	217 323 1282 1115 1113	104 216 1106 990 1051	
HETDA81	1008358	394	blastx.2		IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	88% 42%	3 221	110 262	

HODEI92	1008359	395	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	45%	1	306
HODEG86	1008379	397	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	55% 51%	236 424	400 546
HODFA57	1008396	398	blastx.2	retrovirus-related pol polyprotein pseudogene - human 1	pir A26718 A26718	36% 58%	102 17	596 67
HODFB31	1008401	399	blastx.2	(AL021768) ATP binding protein-like [Arabidopsis thaliana]	emb CAA16931.1	52%	1	261
HTEMP79	1008406	400	blastx.2	(AJ223782) CDC10 [Mus musculus]	emb CAA11547.1	95% 51% 94%	374 136 625	628 375 678
HODEI59	1008423	401	blastx.2	(AJ237734) ribophorin II [Homo sapiens]	emb CAB54801.1	100% 100% 97% 39% 30%	296 1404 1270 1876 1145	1273 1859 1404 1959 1279
HODEF94	1008429	402	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	2	85
HPFCZ53	1008445	403	blastx.2	(AF176818) transcription factor AP- 2 [Silurana tropicalis]	gb AAD53289.1 AF1 76818_1	79% 93%	296 3	769 296
HWACN7 1	1008764	404	blastx.2	(AF105261) natural killer cell receptor 2B4 [Homo sapiens]	gb AAD32538.1 AF1 05261_1	100%	174	1268
HOFMU69	1009017	405	blastx.2	(AF077038) unc-50	gb AAD27771.1 AF0	97%	375	1151

					related protein homolog [Homo sapiens]	77038_1			
HETBR71	1009343	407	blastx.2		(AL049610) dJ1055C14.1 (transcription elongation factor A (SII)-like 1) [Homo sapiens]	emb CAB55700.1	99%	182	658
HE2ES17	1009349	408	blastx.2		CDV-1R protein [Mus musculus]	emb CAA71519.1	89%	3	914
HELHM06	1009362	409	blastx.2		pre-mRNA splicing factor [Homo sapiens]	gb AAA36649.1	85%	56	349
HE2ES61	1009388	411	blastx.2		(AC005034) gc-rich sequence dna-binding factor [Homo sapiens]	gb AAC82536.1	100%	555	427
HE2SO43	1009398	412	blastx.2		protein Htf9C [Mus musculus]	emb CAA39515.1	74%	73	390
HLHCI07	1009403	413	blastx.2		(AL031985) dJ228H13.1 (similar to Ribosomal protein L21e) 1	emb CAB46381.1	75%	127	8
HTTBR65	1009414	414	blastx.2		E1A-F [Homo sapiens]	dbj BAA02234.1	100%	55	231
HPFCV71	1009453	415	blastx.2		(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	60%	449	622
HCABR46	1009479	416	blastx.2		BST-2 [Homo sapiens]	dbj BAA05679.1	88%	127	423
HCRCB80	1009482	417	blastx.2		OTK27 [Homo sapiens]	dbj BAA23363.1	100%	96	479
HPMLW78	1009833	418	blastx.2		E2A/PRL fusion	gb AAA36764.1	99%	1	606

HODJX27	1009854	420	blastx.2	protein [Homo sapiens] (AJ005324) glutamate permease [synthetic construct]	emb CAA06471.1	90%	1	123
HODJV85	1009857	421	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	77% 35%	366 505	205 416
HOJOJ38	1009918	422	blastx.2	ribosomal protein L14 [Homo sapiens]	dbj BAA13443.1	98%	1	603
HAOSI69	1009949	423	blastx.2	bcl-1 [Homo sapiens]	gb AAA58392.1	100%	271	1155
HSDIY67	1010157	424	blastx.2	hypoxanthine (guanine) phosphoribosyltransfer ase [Cricetulus longicaudatus]	emb CAA42198.1	69%	60	689
HSDZM65	1010299	425	blastx.2	(AJ010953) putative Ca ²⁺ -transporting ATPase [Homo sapiens]	emb CAA09425.1	100%	2	337
HPDOC39	1010400	426	blastx.2	(AB009282) cytochrome b5 [Homo sapiens]	dbj BAA23735.1	99%	171	608
HE2PS15	1010525	427	blastx.2	(AF054175) mitochondrial proteolipid 68MP homolog [Homo sapiens]	gb AAC39909.1	100%	63	236
HTTKH22	1010596	428	blastx.2	weak similarity to	emb CAA86663.1	38%	887	1435

					microtubule associated proteins; cDNA EST 1 1 EMBL:D37339 comes from this gene; cDNA EST EMBL:D6742				32% 27%	1442 692	1561 949
HNOJG33	1010698	429	blastx.2	SAS [Homo sapiens]	gb AAC39524.1				98% 68% 100%	590 1203 1246	1207 1274 1278
HPDVK48	1011090	430	blastx.2	AZ-1 [Mus musculus]	dbj BAA19002.1				82% 77% 82% 70% 23% 23% 34% 25% 29% 26% 27% 27% 31% 19% 27% 27% 30% 26% 27% 22% 33%	236 1100 735 1 200 1100 753 203 1148 1160 284 1091 747 302 750 738 747 239 660 747 750	730 1630 1100 243 775 1603 1103 769 1612 1612 775 1600 1091 709 1085 1094 1097 727 1088 1085 1007

HNORJ10	1011186	431	blastx.2	hypoxia-inducible factor 1 alpha [Homo sapiens]	gb AAC50152.1	20%	780	1331
HPDRG92	1011209	432	blastx.2	2-oxoglutarate dehydrogenase precursor [Homo sapiens]	dbj BAA01393.1	23%	735	1061
HOFMQ81	1011303	433	blastx.2	unnamed protein product [Bos taurus]	emb CAA71771.1	25%	305	691
HOFNF27	1011315	434	blastx.2	coxackie and adenovirus receptor protein [Homo sapiens]	emb CAA68868.1	22%	750	1106
HOFND52	1011316	435	blastx.2	interferon alpha /beta receptor [Homo sapiens]	emb CAA61914.1	27%	413	730
HOFNL96	1011321	436	blastx.2	GM2-activator protein [Homo sapiens]	emb CAA43408.1	28%	413	730
HOFNF53	1011332	437	blastx.2	(AF039584) decay	gb AAC77439.1	42%	151	249
						32%	747	938
						31%	106	246
						23%	401	673
						25%	533	706
						24%	97	273
						99%	30	1628
						54%	120	152
						82%	7	234
						73%	237	326
						35%	1	60
						66%	152	541
						66%	97	141
						89%	60	623
						43%	240	533
						44%	59	205
						49%	72	551
						43%	28	123
						46%	62	883

					accelerating factor soluble-form precursor; CD55 [Rattus norvegicus]				41%	1155	1706
HOFMU61	1011360	438	blastx.2		(AJ009698) embigin protein [Rattus norvegicus]		emb CAA08796.1		60%	377	1249
HOFOF35	1011499	439	blastx.2		(AF061738) leucine aminopeptidase [Homo sapiens]		gb AAD17527.1		86%	88	582
									88%	602	736
									82%	20	88
									25%	52	450
									90%	576	605
HULFJ37	1011537	440	blastx.2		midkine [Homo sapiens]		dbj BAA01457.1		100%	124	552
HOFME75	1011607	441	blastx.2		collagen binding protein 2 [Homo sapiens]		dbj BAA11829.1		93%	224	970
HOPKO74	1011608	442	blastx.2		collagen binding protein 2 [Homo sapiens]		dbj BAA11829.1		99%	229	1482
HCBBA51	1011755	443	blastx.2		(AF077045) ATP synthase epsilon chain [Homo sapiens]		gb AAD27778.1 AF0 77045_1		100%	114	266
HDHEB13	1011773	444	blastx.2		type X collagen [Bos taurus]		emb CAA37624.1		42%	202	942
									42%	235	942
									52%	229	534
									49%	229	537
									50%	202	537
									49%	232	549
									47%	235	537

							45%	229	534
							45%	229	549
							49%	235	537
							49%	232	537
							45%	199	534
							48%	211	537
							49%	235	537
							49%	235	534
							47%	226	537
							45%	235	534
							44%	226	534
							42%	202	534
							35%	235	750
							45%	235	537
							34%	235	750
							42%	232	534
							40%	202	549
							48%	283	537
							32%	53	277
							50%	50	130
							31%	47	277
HDTMG36	1011821	445	blastx.2	(AJ271158) DAPI protein [Rattus norvegicus]	emb CAB71156.1	91%	75	248	
HVVCJ38	1011830	446	blastx.2	CLC-7 chloride channel protein [Homo sapiens]	emb CAA91556.1	100%	20	817	
HPAMY22	1011840	447	blastx.2	scleraxis=basic helix- loop-helix transcription factor [mice, embryos,	gb AAB34266.1	79%	4	180	

HE9CP86	1011847	448	blastx.2	Peptide, 207 aa] [Mus sp.] (AF161499) HSPC150 [Homo sapiens]	gb AAF29114.1 AF161499.1	100%	137	727
HPDOU46	1011883	449	blastx.2	(AF117582) calcyphosine-like protein [Manduca sexta]	gb AAF16704.1 AF117582.1	52%	72	692
HFCDW73	1011901	450	blastx.2	(AK000376) unnamed protein product [Homo sapiens]	dbj BAA91124.1	94%	6	425
HOVEB13	1011919	451	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	99%	96	905
HPAMS93	1011948	452	blastx.2	TB1 [Homo sapiens]	gb AAA03587.1	97%	125	1105
HCRBN71	1011966	453	blastx.2	unknown [Saccharomyces cerevisiae]	gb AAA79999.1	40%	64	420
HCRNC60	1012005	454	blastx.2	tropomyosin [Homo sapiens]	gb AAA36771.1	81% 91% 31% 28% 27% 24% 22%	769 1202 796 766 766 925 1238	1236 1519 1245 1257 1218 1212 1459
HSPSJ24	1012064	455	blastx.2	IFN-alpha responsive transcription factor [Homo sapiens]	gb AAA58687.1	100%	392	925
HOVDZ22	1012136	457	blastx.2	unnamed protein product [unidentified]	emb CAB69195.1	89%	2	82

HCONM62	1012454	460	blastx.2	100 kDa coactivator [Homo sapiens]	gb AAA80488.1	97% 29%	5 2	1306 646
HOGU69	1012459	461	blastx.2	TB2 [Homo sapiens]	gb AAA66351.1	99%	101	691
HVVBD93	1012469	462	blastx.2	(AK001339) unnamed protein product [Homo sapiens]	dbj BAA91635.1	33% 27%	23 601	382 852
HCOMV86	1012482	463	blastx.2	DC classII histocompatibility antigen alpha-chain [Homo sapiens]	emb CAA25141.1	94% 98%	307 71	834 319
HCONJ23	1012519	464	blastx.2	DNA-PK [Homo sapiens]	gb AAA79184.1	97%	1	990
HVVBL04	1012536	465	blastx.2	inositol 1,4,5- trisphosphate receptor type 2 [Mus musculus]	emb CAA94861.1	98%	2	310
HVVAF65	1012542	466	blastx.2	peroxisomal acyl-CoA oxidase [Homo sapiens]	emb CAA50574.1	98%	3	731
HCONN76	1012545	467	blastx.2	p78 protein [Homo sapiens]	gb AAA36458.1	99%	64	1716
HODEG95	1012599	469	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21	64% 41%	452 550	300 443

HCOOX52	1012600	470	blastx.2	C1 inhibitor [Homo sapiens]	emb CAA30314.1	100%	68	1567
HVVBK78	1012645	472	blastx.2	protein kinase C mu [Homo sapiens]	emb CAA53384.1	98%	101	643
HVVBK73	1012646	473	blastx.2	amiloride binding protein [Homo sapiens]	emb CAA55046.1	93% 52%	2 648	709 710
HCOMW3 5	1012652	474	blastx.2	NBK [Homo sapiens]	emb CAA62013.1	100%	48	527
HVVBK78	1012654	475	blastx.2	(AF026851) cytochrome oxidase assembly factor [Homo sapiens]	gb AAD08640.1	99% 99%	44 1102	1099 1701
HVVA41	1012665	477	blastx.2	(AB006202) cytochrome b small subunit of complex II [Homo sapiens]	dbj BAA22054.1	100%	74	550
HVVAS32	1012668	478	blastx.2	giantin [Homo sapiens]	emb CAA53052.1	95% 97% 27% 22% 23% 23% 22% 23% 23% 22% 23% 23% 22% 20% 22% 19%	24 2032 141 123 222 135 117 153 117 126 117 69 126	2036 2856 1877 2252 2015 2078 2030 2021 1829 2018 1877 2039 1883

HVVAQ70	1012678	479	blastx.2	voltage dependent anion channel form 3 [Homo sapiens]	gb AAB93872.1	100%	134	982
						22%	441	1994
						20%	1281	2039
						23%	2014	2622
						84%	43	117
						34%	2437	2700
						22%	2071	2631
						20%	2125	2628
						24%	2143	2625
						23%	2128	2616
						23%	1987	2652
						21%	2032	2538
						24%	2140	2625
						20%	2206	2634
						23%	2035	2622
						21%	2053	2694
						24%	1987	2559
						20%	2104	2715
						25%	2032	2313
						19%	2065	2610
						19%	2152	2628
						20%	2032	2565
						28%	2080	2238
						100%	110	136
						22%	3779	3910
						43%	3833	3901
						21%	2035	2616
						27%	2905	3057

HVVAQ22	1012684	480	blastx.2	smooth muscle myosin light chain kinase, smMLCK [C-terminal] 1 1	gb AAB50715.1	98% 98%	67 67	573 573
HTAES83	1012693	481	blastx.2	specific 116-kDa vacuolar proton pump subunit [Homo sapiens]	gb AAA97878.1	99% 99%	302 2350	1990 2961
HOCMN67	1012700	482	blastx.2	receptor kinase [Homo sapiens]	gb AAA58391.1	99% 92% 54% 60%	1 1142 1310 1332	1155 1306 1375 1376
HAPOW35	1012711	483	blastx.2	agpet8 protein. [Schizosaccharomyces pombe]	emb CAA94699.1	48%	113	553
HOVJM48	1013085	484	blastx.2	(AL035593) dJ310J6.1 (novel protein) [Homo sapiens]	emb CAB56526.1	100%	2	454
HBJHY84	1013213	485	blastx.2	(AK000703) unnamed protein product [Homo sapiens]	dbj BAA91330.1	97%	3	653
HFIAS44	1013288	487	blastx.2	(AF124727) acinusS [Homo sapiens]	gb AAD56725.1	99% 100% 43% 38% 34% 28% 24% 26% 23% 30%	205 69 1186 1186 1168 1195 1183 1375 1313 1490	1605 203 1389 1407 1395 1605 1605 1653 1615 1675

HHAUD68	1013349	488	blastx.2	non-histone chromosomal protein [Homo sapiens]	gb AAB53427.1	40%	1112	1207
HEEAA89	1013436	489	blastx.2	(AF071172) HERC2 [Homo sapiens]	gb AAD08657.1	98% 100%	43 2	675 46
HNTAK22	1013524	490	blastx.2	(AF053944) aortic carboxypeptidase-like protein ACLP [Homo sapiens]	gb AAC25585.1	99% 34% 32% 27% 27% 25%	2 2 53 20 3 9	3175 853 853 763 305 341
HOVBX78	1013687	491	blastx.2	(AK001751) unnamed protein product [Homo sapiens]	dbj BAA91882.1	98% 88% 47%	281 633 649	637 707 750
HVVAW7 4	1013740	492	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	99% 90%	139 5	516 136
HSPSF84	1013853	493	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	40%	165	440
HPAMV95	1014003	494	blastx.2	metalloproteinase inhibitor precursor [Homo sapiens]	gb AAA59581.1	100%	54	713
HOVBX22	1014041	495	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	60% 40% 63%	317 159 181	183 67 149
HPDRB63	1014204	496	blastx.2	zinc finger protein C2H2-25 [Homo sapiens]	gb AAA93261.1	60% 65% 59% 53%	2 2 2 2	781 646 679 766

HNHG166	1014252	497	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	49%	47	766
HDPN96	1014432	498	blastx.2	interferon-gamma induced protein [Homo sapiens]	gb AAA58683.1	99%	416	1741
HPCTH41	1014485	499	blastx.2	(AB014888) MRJ [Homo sapiens]	dbj BAA32209.1	100%	168	890
HPCTY73	1014646	500	blastx.2	glycyl tRNA synthetase [Homo sapiens]	dbj BAA06338.1	92%	1	123
HCOPQ33	1014730	501	blastx.2	SOX9 [Homo sapiens]	emb CAA86598.1	100%	83	2299
HOEBR36	1014754	502	blastx.2	(AF180801) peroxisomal long chain acyl-CoA thioesterase Ib [Mus musculus]	gb AAF13872.1	73%	429	380
HOER36	1014869	504	blastx.2	(AF172066) retinoic acid repressible protein [Homo sapiens]	gb AAD49745.1 AF1 72066_1	77%	176	1061
HE8OX75	1015010	505	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	73%	9	352
HVASI06	1015024	506	blastx.2	(AK000178) unnamed protein product [Homo sapiens]	dbj BAA90992.1	44%	352	480
						100%	75	794
						53%	328	158
						54%	246	112
						85%	110	48
						100%	106	1086
						31%	619	1206
						96%	35	109
						100%	1083	1106

HDPXP07	1015059	507	blastx.2	(AK000370) unnamed protein product [Homo sapiens]	dbj BAA91118.1	64%	3	215
HE2KH02	1015093	508	blastx.2	(AL137756) hypothetical protein [Homo sapiens]	emb CAB70908.1	99%	1	615
HSPSI60	1015133	509	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	67%	5	319
HOCOC26	1015143	510	blastx.2	(AE001691) conserved hypothetical protein [Thermotoga maritima]	gb AAD35130.1 AE001691_4	40% 41%	136 136	690 543
HHEDC05	1015204	511	blastx.2	Lipoprotein RlpA precursor. [Escherichia coli]	dbj BAA35276.1	98%	867	61
HODES86	1015304	512	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	57%	125	364
HOPJU57	1015324	513	blastx.2	SELENOPROTEIN W.	sp O15532 SELW_HUMAN	98%	934	1164
HVCAC71	1015343	514	blastx.2	alcohol dehydrogenase class III [Homo sapiens]	gb AAA51597.1	99%	41	1204
HSXCO55	1015360	515	blastx.2	coronin-like protein [Schizosaccharomyces pombe]	emb CAB11184.1	33% 28% 30% 24% 30%	159 1258 2063 991 1533	971 1575 2428 1263 1736
HLLWDB78	1015430	516	blastx.2	(AK001322) unnamed protein product [Homo sapiens]	dbj BAA91623.1	95% 56%	30 613	602 681

HPCQU04	1015563	517	blastx.2	sapiens] (AF093414) estrogen response element binding protein [Saguinus oedipus]	gb AAC77437.1	98%	315 1232 1309 282	1232 1390 1362 518
HDPAT52	1015574	518	blastx.2	(AF056191) TPA inducible protein [Homo sapiens]	gb AAC12944.1	99% 42% 45% 38% 37% 37% 36% 34%	122 290 467 458 467 473 473 467	1054 1054 1018 1030 1030 1024 1024 1024
HAOSL81	1015620	519	blastx.2	P24 protein [Mus musculus]	dbj BAA18947.1	41% 32%	139 815	549 970
HMWIU46	1015814	520	blastx.2	(AF148457) heterogeneous nuclear ribonucleoprotein, alternate transcript [Homo sapiens]	gb AAF04487.1 AF1 48457_1	99%	232	1152
HSXCQ19	1015994	521	blastx.2	(AC006486) BC85722_1 [Homo sapiens]	gb AAD11988.1	90% 37% 25% 29% 30% 28% 25% 47%	3 880 30 595 15 63 523 341	1175 1203 515 867 299 284 888 397
HNOAG06	1016272	522	blastx.2	(AF001947) U4/U6- associated RNA	gb AAC09069.1	100%	340	546

HE2KN09	1016351	523	blastx.2	splicing factor [Homo sapiens] (AF095446) syndesmos [Gallus gallus]	gb AAF29566.1 AF095446.1	75%	24	680
HISDH58	1016740	524	blastx.2	(AF060570) rig-1 protein [Mus musculus]	gb AAD11628.1	70% 65% 48%	69 55 1058	1313 210 1222
HSPSB62	1016768	525	blastx.2	(AB016533) nuclear protein containing a WW domain (Npw38) [Homo sapiens]	dbj BAA76400.1	100%	196	990
HE2FR37	1016939	526	blastx.2	(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	73%	247	726
HBJHU33	1017051	527	blastx.2	(AK001775) unnamed protein product [Homo sapiens]	dbj BAA91901.1	99%	82	618
HCOQZ88	1017227	528	blastx.2	(AF027299) protein 4.1-G [Homo sapiens]	gb AAC16923.1	100% 47%	225 3	1196 722
HNNTSV21	1017374	529	blastx.2	seryl-tRNA synthetase [Homo sapiens]	emb CAA62635.1	95% 90%	712 3	1008 32
HNORH33	1017461	530	blastx.2	(AJ132637) ATP-dependent metalloprotease YME1L [Homo sapiens]	emb CAB51858.1	99%	255	2063
HUFEF35	1017565	531	blastx.2	precursor polypeptide (AA -21 to 782) [Homo sapiens]	emb CAA33261.1	99% 100% 35%	303 2527 1083	2123 3048 1166

HJPCG39	1017694	532	blastx.2	(AF118078) PRO1848 [Homo sapiens]	gb AAF22022.1 AF1 18094_17	65%	17	139
HISBM03	1017772	533	blastx.2	(AF092576) translation initiation factor eIF3 p40 subunit; 1	gb AAC84044.1	45%	142	240
HOFAA79	1017801	534	blastx.2	(AF134404) delta-6 fatty acid desaturase [Homo sapiens]	gb AAD31282.1 AF1 34404_1	100%	751	924
HPRAJ96	1017825	535	blastx.2	growth-regulating protein [Homo sapiens]	gb AAA18898.1	88%	14	532
HBXFX71	1018032	536	blastx.2	(AF071081) proline- rich mucin homolog [Mycobacterium tuberculosis]	gb AAD41594.1 AF0 71081_1	83%	505	885
HMVDD8 1	1018080	537	blastx.2	(AF161477) HSPC128 [Homo sapiens]	gb AAF29092.1 AF1 61477_1	100%	690	824
HVVDH50	1018226	538	blastx.2	zyxin [Homo sapiens]	emb CAA64447.1	100%	653	685
HNNBT57	1018243	539	blastx.2	(AK000372) unnamed protein product [Homo sapiens]	dbj BAA91120.1	32%	1	597
HCONJ11	1018459	540	blastx.2	(AF083385) 30kDa splicing factor; SPF 30 [Homo sapiens]	gb AAC64086.1	21%	1	633
HCQAW6	1018501	541	blastx.2	(AK000010) unnamed	dbj BAA90881.1	32%	23	745
						45%	143	1327
						24%	1330	1857
						54%	1303	1455
						28%	662	1336
						30%	134	346
						100%	1822	1914
							5	295
							194	45
							355	230
							363	244
							186	899
							104	436

8					protein product [Homo sapiens]		100%	1198	1293
HVVCY25	1018772	542	blastx.2	emb CAA50897.1	almost identical to nRNP M protein, acc.L03532 [Homo sapiens]		96%	1381	1455
HCOMB65	1018802	543	blastx.2	emb CAB05105.1	dJ68O2.2 (myosin, heavy polypeptide 9, non-muscle) [Homo sapiens]		99%	409	1059
							56%	418	792
							47%	394	711
							48%	418	810
							100%	332	1204
							100%	1803	2600
							100%	1204	1800
							26%	1725	2486
							63%	19	246
							23%	332	1237
							23%	335	1243
							25%	341	1183
							23%	332	1156
							23%	1803	2588
							22%	332	1147
							22%	332	1195
							25%	332	1195
							23%	332	1201
							23%	299	1249
							22%	1734	2531
							23%	1204	1746
							27%	1207	1791
							21%	1219	1767
							22%	335	1198
							30%	1258	1788
							22%	1794	2588
							23%	491	1204
							19%	335	1237

[illegible]

								22%	1204	1788
								23%	1237	1803
								18%	1189	1767
								25%	611	1183
								25%	1228	1473
								29%	1222	1440
								31%	1714	1800
								35%	67	228
								27%	1684	1803
								31%	115	237
								28%	61	216
								26%	67	225
								24%	258	401
								19%	34	234
								28%	249	344
								26%	1192	1305
HVVC30	1018907	544	blastx.2	(AF010144) neuronal thread protein AD7c- NTP [Homo sapiens]			gb AAC08737.1	53%	121	387
								61%	118	294
								69%	149	295
								62%	3	131
								59%	284	349
								53%	42	128
								47%	282	380
HODBV21	1018943	545	blastx.2	(AC004537) similar to tumor suppressor p33ING1; similar to AF044076 (PID:g2829208) [Homo sapiens]			gb AAC12956.1	99%	151	861
HCHMD81	1019326	546	blastx.2	(AL023859) trna-	emb CAA19575.1			42%	733	945

					splicing endonuclease subunit [Schizosaccharomyces pombe]		29%	85	423
HAZAR95	1019338	547	blastx.2		phosphate carrier protein [Homo sapiens]	emb CAA42641.1	100%	110	1192
HMWFS51	1019409	548	blastx.2		(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41% 54% 42%	314 71 648	607 277 704
HE8SD82	1019585	549	blastx.2		(AL035494) dJ635G19.2.1 (novel protein (isoform 1)) [Homo sapiens]	emb CAB44749.1	99%	13	570
HSPSN08	1019608	550	blastx.2		(AF161491) HSPC142 [Homo sapiens]	gb AAF29106.1 AF161491.1	100% 99%	134 918	919 1235
HVCAH24	1019749	551	blastx.2		(AC002394) Unknown gene product [Homo sapiens]	gb AAC05810.1	100%	103	468
HJPCF71	1019892	554	blastx.2		(AK000566) unnamed protein product [Homo sapiens]	dbj BAA91259.1	98%	234	830
HVCAE76	1019942	555	blastx.2		zinc finger protein [Rattus norvegicus]	emb CAA42610.1	48% 34% 50% 63%	576 72 1 89	2075 731 90 121
HOCMH14	1020007	556	blastx.2		(AL137618) hypothetical protein [Homo sapiens]	emb CAB70844.1	99% 78% 42%	298 1146 1871	1311 1730 1984
HPDRZ03	1020130	557	blastx.2		CCAAT-box DNA binding protein subunit	gb AAA59930.1	100%	131	751

HOCPO73	1020180	558	blastx.2	NF-YB [Homo sapiens] protein p84 [Homo sapiens]	gb AAA53571.1	93% 97% 100% 42% 37%	3646 3881 3993 1832 1888	2024 3636 3940 1758 1841
HNKDT10	1020832	559	blastx.2	(AF191018) E2IG3 [Homo sapiens]	gb AAF09482.1 AF1 91018 1	99% 93%	77 426	436 569
HWHGO2 5	1020841	560	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942 1	68%	3	137
HWMNE3 1	1020852	561	blastx.2	(AF083384) 45kDa splicing factor; SPF 45 [Homo sapiens]	gb AAC64085.1	98%	169	675
HUSYJ75	1020878	562	blastx.2	(AJ242540) hydroxyproline-rich glycoprotein DZ- HRGP [Volvox carteri f. nagariensis]	emb CAB62280.1	33% 35% 34% 32% 34% 32% 31% 32% 29% 31% 30% 28% 34% 31%	67 67 67 67 67 67 67 67 64 67 64 64 184 184	684 624 624 684 624 714 696 624 714 654 654 696 624 783
HSDFS07	1020904	563	blastx.2	(AL033534) hypothetical serine-rich secreted protein	emb CAA22127.1	27%	981	118

HCOPC09	1021208	564	blastx.2	[Schizosaccharomyces pombe] (AJ245905) HSBP1-like protein [Chlorocebus aethiops]	emb CAB55759.1	95%	183	305
HVVBT22	1021323	565	blastx.2	hnRNP G protein [Homo sapiens]	emb CAA80599.1	100%	936	1649
HAMFW6 6	1021327	566	blastx.2	(AF075704) neuronal glutamine transporter [Rattus 1]	gb AAF34240.1 AF075704_1	89% 89% 100%	20 949 15	937 1227 53
HPMBW8 6	1021661	567	blastx.2	(AF129756) G4 [Homo sapiens]	gb AAD18083.1 AA D18083	85%	3	614
HOFMK02	1021666	568	blastx.2	(AF038616) small tumor antigen t-ag [Simian virus 40]	gb AAC59341.1	100%	159	230
HOUHK71	1021682	569	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75%	429	268
HCOOW2 3	1021759	570	blastx.2	(AJ011376) hypothetical protein [Homo sapiens]	emb CAB66159.1	30%	210	689
HACMT02	1021794	571	blastx.2	ORF_o109 [Escherichia coli]	gb AAA79814.1	100%	209	3
HISDS67	1022018	572	blastx.2	(AK000633) unnamed protein product [Homo sapiens]	dbj BAA91298.1	60% 36% 43% 28% 24% 30% 38%	22 1139 1130 890 417 1277 1344	339 1318 1225 1327 950 1522 1484

HOVAA59	1022037	573	blastx.2	(AC002291) Similar ATP-dependent RNA Helicase [Arabidopsis thaliana]	gb AAC00620.1	27% 48% 28% 41%	1232 590 1285 1143	1372 682 1455 1193
HOCPL72	1022059	574	blastx.2	(AK001197) unnamed protein product [Homo sapiens]	dbj BAA91548.1	59% 33% 31% 39% 21% 46% 29% 27% 38% 36%	252 1765 1316 1573 1744 1417 1744 1736 1447 1718	1319 2421 1585 1770 2211 1506 1917 1966 1536 1813
HCOMM0 5	1022082	575	blastx.2	epidermal growth factor receptor kinase substrate [Homo sapiens]	gb AAA62280.1	46% 43% 23%	445 115 43	840 435 222
HL YDC86	1022162	576	blastx.2	(AF015040) NUMB protein [Homo sapiens]	gb AAD01548.1	100% 100%	3 839	836 1570
HTLEP21	1022167	577	blastx.2	(AF081280) nucleoplasmin-3 [Homo sapiens]	gb AAC31609.1	97% 100%	101 33	445 95
HVCAS77	1022313	578	blastx.2	ribonuclease H1 large subunit [Homo sapiens]	emb CAB09725.1	99%	176	1072
HSKJP93	1022663	580	blastx.2	(AL050022) hypothetical protein	emb CAB43242.1	100%	2	247

HAZAA64	1022719	581	blastx.2	[Homo sapiens] predicted using Genefinder; Similarity to Prototheca 1 1 gene; cDNA EST yk386c1.3 comes from this gene; cDNA EST yk38	emb CAA99938.1	43%	304	705
HSEBD72	1022904	582	blastx.2	(AF044773) breakpoint cluster region protein 1 [Homo sapiens]	gb AAC08964.1	89%	164	580
HDPYE27	1022911	583	blastx.2	(AF062346) zinc finger protein 216 splice variant 1 [Homo sapiens]	gb AAC42601.1	100%	428	1066
HCRQL51	1022997	584	blastx.2	PEG1/MEST [Homo sapiens]	emb CAA72297.1	100%	50	1030
HDTCC55	1023046	585	blastx.2	(AL117483) hypothetical protein [Homo sapiens]	emb CAB55956.1	33% 35% 42%	306 4 105	533 105 182
HOOJQ91	1023049	586	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	63%	3	530
HCE4K28	1023227	587	blastx.2	(AF021792) Bcl- X/Bcl-2 binding protein [Homo sapiens]	gb AAB72092.1	98%	262	750
HPDVY62	1023264	588	blastx.2	DOCK180 protein [Homo sapiens]	dbj BAA09454.1	99%	2	1126
HLHDK42	1023339	589	blastx.2	modifier 2 [Mus musculus]	emb CAA40012.1	61% 85%	58 3	300 62
HLDRQ55	1023375	590	blastx.2	coiled-coil like protein	gb AAB61902.1	98%	5	388

HVVBI06	1023414	591	blastx.2	1 [Mus musculus] (AF064603) GA17 protein [Homo sapiens]	gb AAC17108.1	97%	93	647
						96%	1359	637
HOCME51	1023422	592	blastx.2	(AK001103) unnamed protein product [Homo sapiens]	dbj BAA91503.1	98%	14	313
						96%	319	492
						97%	498	623
HPDOP74	1023531	593	blastx.2	(AF104670) cell cycle protein [Homo sapiens]	gb AAD05561.1	100%	173	1354
HMSOH12	1023545	594	blastx.2	chaperonin-like protein [Homo sapiens]	gb AAA61061.1	100%	1	1077
HOPJG50	1023584	595	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	157	507
HIDUAB04	1023585	596	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	21	371
HVCAA38	1023632	597	blastx.2	TREB protein [Homo sapiens]	emb CAA39149.1	100%	36	818
HIBCN87	1023837	598	blastx.2	(AF006264) recombination and sister chromatid cohesion protein homolog [Homo sapiens]	gb AAD01193.1	96%	1	1017
						92%	1160	1300
						79%	1332	1478
						100%	1582	1665
						67%	969	1070
						28%	88	972
						33%	202	471
						40%	250	417
						38%	1169	1315
						36%	331	510
						35%	969	1028
HPCOM04	1024000	599	blastx.2	vacuolar H+ ATPase E subunit [Homo sapiens]	emb CAA53814.1	100%	141	818

HPAME01	1024332	601	blastx.2	(AL109978) hypothetical protein [Homo sapiens]	emb CAB53376.1	98%	804	1061
HTTJS76	1024472	602	blastx.2	N-WASP [Homo sapiens]	dbj BAA20128.1	97% 68%	3 6	392 44
HCORI57	1024556	603	blastx.2	39 kDa encoded by N33 [Homo sapiens]	gb AAB18374.1	97%	200	1231
HNORG50	1024624	604	blastx.2	(AF006084) p41-Arc [Homo sapiens]	gb AAB64189.1	57% 98% 66%	198 62 1029	275 1027 1112
HWLVR07	1024915	605	blastx.2	(AL050273) hypothetical protein [Homo sapiens]	emb CAB43374.1	100%	203	517
HOPKF60	1025047	606	blastx.2	(AJ249366) epsilon- COP protein [Homo sapiens]	emb CAB55628.1	100%	48	971
HBDAD74	1025102	607	blastx.2	(AL031640) /prediction=(method:"" genscan" version:""1.0"" , 1 1 1 target:SPTREMBL::O6 087	emb CAA21052.1	39%	2	403
HPCTY12	1025231	608	blastx.2	(AB015597) hTIM1 [Homo sapiens]	dbj BAA36499.1	96%	68	1225
HFASF12	1025327	609	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	64%	251	3
HLIBM71	1025359	610	blastx.2	(AF110776) adrenal gland protein AD-003 [Homo sapiens]	gb AAF14859.1 AF1 10776_1	98% 100%	183 512	512 766

HNOKW2 7	1025366	611	blastx.2	F35C11.4 [Caenorhabditis elegans]	emb CAA90244.1	30%	162	632
HPFDG48	1025526	612	blastx.2	(AF083242) HSPC024- iso [Homo sapiens]	gb AAD39840.1	88%	313	387
HVVBF24	1025712	613	blastx.2	TRAM protein [Homo sapiens]	emb CAA45218.1	90%	564	623
HE8UF88	1025745	614	blastx.2	retinoblastoma-binding protein mRbAp48 [Mus musculus]	gb AAC52275.1	100%	175	1296
HOUBC29	1025749	615	blastx.2	GTP-binding protein (rab2) [Canis familiaris]	gb AAA30888.1	96%	124	1473
HOCYP47	1025965	616	blastx.2	(AF055010) unknown [Homo sapiens]	gb AAC09360.1	40%	1391	1495
HOVKE20	1025990	617	blastx.2	follistatin-related protein FLRG [Homo sapiens]	gb AAC64321.1	100%	444	719
HODBK27	1026372	619	blastx.2	(AF054284) spliceosomal protein SAP 155 [Homo sapiens]	gb AAC97189.1	99%	1567	2760
HE8CH59	1026805	620	blastx.2	(AK001093) unnamed protein product [Homo sapiens]	dbj BAA91500.1	92%	1337	1594
HSKGR52	1026911	621	blastx	putative glycosyl transferase [Schizosaccharomyces pombe]	emb CAB10854.1	100%	36	824
						100%	123	497
						100%	1913	2632
						100%	1654	1848
						31%	1994	2689
						36%	2405	2755
						55%	488	616
						76%	389	439
						42%	272	376
						40%	92	202

HMUAQ0 5	1026913	622	blastx.2	(AF151825) CGI-67 protein [Homo sapiens]	gb AAD34062.1 AF1 51825_1	74%	54	524
HCOMA45	1026979	623	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685_1	51% 66%	557 601	378 566
HE2KI45	1027007	624	blastx.2	(AF161553) HSPC068 [Homo sapiens]	gb AAF29040.1 AF1 61553_1	99%	6	1565
HODDO66	1027207	625	blastx.2	S-adenosylmethionine synthetase [Homo sapiens]	emb CAA48726.1	78% 94% 52%	35 865 7	241 975 63
HVVAT45	1027269	626	blastx.2	(AF102265) N- acetylglucosamine- phosphate mutase [Homo sapiens]	gb AAC72409.1	100% 100%	275 74	1117 277
HVCAG18	1027484	627	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1	100%	22	393
HPTXK72	1027486	628	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1	100%	91	462
HDTLR06	1029191	630	blastx.2	(AF132552) BcDNA.GM01838 [Drosophila melanogaster]	gb AAD27851.1 AF1 32552_1	73%	123	1004
HPAMG11	1029484	631	blastx.2	BB1=malignant cell expression-enhanced gene/tumor 1 line, Peptide, 342 aa] [Homo sapiens]	gb AAB37433.1	99%	2	667

HSDJR27	1030870	632	blastx.2	(AL137520) hypothetical protein [Homo sapiens]	emb CAB70786.1	100%	52	1176
HOCPL33	1030871	633	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	32%	1097	1516
						35%	1037	1429
						33%	1040	1420
						32%	1094	1429
						45%	1747	1899
						34%	1735	1881
HPCQN80	1030963	634	blastx.2	ha1025 is new [Homo sapiens]	dbj BAA07552.1	48%	566	640
						36%	74	130
HODFZ16	1031085	636	blastx.2	(AB033168) nuclear protein ZAP [Mus musculus]	dbj BAA85182.1	99%	95	2158
						96%	1	96
HWGAE28	1031316	637	blastx.2	member of DEAD box protein family [Homo sapiens]	emb CAA49992.1	86%	349	462
						99%	52	2271
HOFNZ21	1031328	638	blastx.2	valosin-containing protein [Sus scrofa]	gb AAA31142.1	65%	259	423
						100%	279	2696
HOOKH25	1031329	639	blastx.2	(AC004472) TERRA_HUMAN [Homo sapiens]	gb AAC07984.1			
HDTIL75	1031435	640	blastx.2	(AK000031) unnamed protein product [Homo sapiens]	dbj BAA90894.1	99%	22	1092

HPRSB55	1031451	641	blastx.2	(AF168418) activating signal cointegrator 1 [Homo sapiens]	gb AAF01278.1	99%	9	1751
HPDPY36	1031606	642	blastx.2	(AF125182) single- strand selective monofunctional uracil DNA glycosylase [Homo sapiens]	gb AAD17301.1	100%	512	631
HETFI47	1031922	643	blastx.2	(AF020797) AP-mu chain family member mu1B [Homo sapiens]	gb AAD25870.1 AF0 20797_1	99%	60	1328
HMAMI21	1031988	644	blastx.2	hypothetical protein Rv0712 [Mycobacterium tuberculosis]	emb CAB06436.1	41%	365	1204
HCOQQ85	1032475	645	blastx.2	S100 calcium-binding protein A13 (S100A13) [Homo sapiens]	emb CAA68188.1	100%	379	672
HE2DQ62	1033653	646	blastx.2	putative T1/ST2 receptor binding protein precursor [Homo sapiens]	gb AAC50419.1	98%	105	785
HEBAE89	1034320	647	blastx.2	(AK000264) unnamed protein product [Homo sapiens]	dbj BAA91040.1	97%	260	400
HKDBF43	1034471	648	blastx.2	(AL049705) hypothetical protein [Homo sapiens]	emb CAB41269.1	100%	48	431
HVVCT43	1034539	649	blastx.2	novel ORF [Homo sapiens]	gb AAB72234.1	91% 100%	700 633	801 698

HTTDR30	1035435	650	blastx.2	(AF214634) polyA binding protein [Homo sapiens]	gb AAF19993.1 AF214634_1	91%	806	841
HODGO46	1035602	651	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	38%	468	115
HNTTB23	1035988	652	blastx.2	(AJ246001) spastin protein [Homo sapiens]	emb CAB60141.1	99%	93	974
HVVBV73	1036583	653	blastx.2	(AF013249) leukocyte-associated Ig-like receptor-1 [Homo 1]	gb AAB69324.1	100%	439	1299
HTEPV42	1036973	655	blastx.2	(AK001738) unnamed protein product [Homo sapiens]	dbj BAA91872.1	99%	1	435
HFTCG52	1037108	656	blastx.2	(AF117723) seed maturation protein PM27 [Glycine max]	gb AAD30426.1 AF117723_1	30%	286	786
HKAOB40	1037131	657	blastx.2	predicted using GeneFinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb CAB01127.1	32%	73	357

HPDVE37	1037303	658	blastx.2	cathepsin C [Homo sapiens]	emb CAA60671.1	100%	118	885
HTLES74	1037438	659	blastx.2	GAP-associated protein p190 - rat	pir A38218 A38218	74% 56% 63% 41%	50 681 15 43	811 875 152 171
HCORG51	1037480	660	blastx.2	ubiquitin-like protein [Bos taurus]	gb AAB49682.1	100%	150	434
HPAMM7 2	1038344	661	blastx.2	nucleoside-diphosphate kinase [Homo sapiens]	emb CAA68877.1	99%	44	520
HKZAT03	1038378	662	blastx.2	endothelial cell growth factor [Homo sapiens]	gb AAA60043.1	100%	114	1559
HDQMA8 5	1038717	663	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100% 100%	234 110	356 235
HVCCQ82	1038718	664	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100%	114	578
HTGFP54	1038915	665	blastx.2	(AL080156) hypothetical protein [Homo sapiens]	emb CAB45747.1	94%	415	525
HBQDF41	1039017	666	blastx.2	beta-spectrin [Homo sapiens]	gb AAA60580.1	99% 20% 21% 22% 19% 22% 60%	1 7 28 16 1 184 2127	2172 2091 2151 2187 2118 2193 2351
HPAMC60	1039290	668	blastx.2	TRAF4-associated factor 2 [Homo sapiens]	gb AAD24202.1 U83194_1	100%	31	1242

HILMHM8 3	1039491	669	blastx.2	sapiens] (AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	44%	158	616
HOUDK70	1039538	670	blastx.2	(AF091083) unknown [Homo sapiens]	gb AAC72952.1	100%	285	1142
HMEFK29	1039652	672	blastx.2	(AC002398) F25965_1 [Homo sapiens]	gb AAB81199.1	54% 100%	808 1	993 48
HAOSK79	1039663	673	blastx.2	(AJ223953) hPTTG [Homo sapiens]	emb CAA11683.1	100%	54	659
HPDRV42	1039689	674	blastx.2	P58 [Homo sapiens]	gb AAC50331.1	100%	135	1649
HOPJD35	1039703	675	blastx.2	(AF035262) BAF57 [Homo sapiens]	gb AAC04509.1	100%	121	1353
HTFNP84	1039748	676	blastx.2	ect2 [Mus musculus]	gb AAA37536.1	94% 42%	73 27	1227 125
HTHDT76	1039871	677	blastx.2	(AL117404) hypothetical protein [Homo sapiens]	emb CAB55905.1	98%	7	564
HSYEC21	1039891	678	blastx.2	adenosine triphosphatase [Homo sapiens]	gb AAA35999.1	99% 96% 37%	432 1 3819	2372 435 3890
HKGCO25	1040384	679	blastx.2	NAP [Homo sapiens]	gb AAC37544.1	99%	3	665
HNOJN70	1040385	680	blastx.2	(AF062594) nucleosome assembly protein [Rattus norvegicus]	gb AAC67388.1	100%	297	425
HADFS31	1040388	681	blastx.2	(AF214680) C3HC4- like zinc finger protein [Homo sapiens]	gb AAF30180.1	88% 92%	449 145	832 504

HJBDC89	1040569	682	blastx.2	nonhepatic arginase [Homo sapiens]	dbj BAA13158.1	100%	113	661
HTAIX75	1040591	683	blastx.2	(AK000897) unnamed protein product [Homo sapiens]	dbj BAA91413.1	47%	303	1175
HODBO29	1040620	684	blastx.2	thioesterase II [Homo sapiens]	emb CAA60024.1	63%	84	527
HOCOF27	1040631	685	blastx.2	zinc-finger helicase [Homo sapiens]	gb AAC39923.1	91%	277	687
HSPSE88	1040694	686	blastx.2	tumor susceptibility protein [Homo sapiens]	gb AAC52083.1	100%	110	922
HSKXM78	1040826	687	blastx.2	(AK001550) unnamed protein product [Homo sapiens]	dbj BAA91751.1	63%	1	175
HNLMB92	1040913	688	blastx.2	protein of unknown function [Homo sapiens]	gb AAA63232.1	75%	108	654
HE8ON57	1040925	689	blastx.2	(AF005855) anon2A5 [Drosophila melanogaster]	gb AAB81486.1	31%	505	398
HOCOC14	1040932	690	blastx.2	protein antigen [synthetic construct]	emb CAA01182.1	96%	355	618
HOGDP49	1041049	691	blastx.2	bcn92 [Drosophila subobscura]	emb CAB55311.1	100%	539	666
HOFMK22	1041070	692	blastx.2	(AF161479) HSPC130 [Homo sapiens]	gb AAF29094.1 AF1 61479 1	26%	50	415
HBGNT69	1041900	693	blastx.2	NF-AT3 gene product [Homo sapiens]	gb AAA79175.1	100%	111	1384
						71%	3	474
						39%	421	356
								428
								212
								612

HSPSI42	1042462	694	blastx.2	ubiquitin-activating enzyme E1 [Homo sapiens]	gb AAA61246.1	40%	455	586
HPDQD23	1042649	695	blastx.2	(AF05470) ZNF258 [Homo sapiens]	gb AAD15797.1	65%	174	338
HWMBAI 0	1042859	696	blastx.2	Mel-18 protein [Homo sapiens]	dbj BAA03074.1	95%	2717	2256
HETKL27	1042951	698	blastx.2	unknown [Homo sapiens]	gb AAA76738.1	40%	188	637
HPCTH04	1043273	699	blastx.2	ATL-derived factor/thioredoxin [Homo sapiens]	emb CAA54687.1	100%	180	494
HVVBM94	1043532	701	blastx.2	pre-pump-1 proteinase (AA -17 to 250) [Homo sapiens]	emb CAA30678.1	100%	52	852
HVVBC43	1043553	702	blastx.2	(AB000468) zinc finger protein [Homo sapiens]	dbj BAA19122.1	100%	301	870
HTPDM31	1044199	703	blastx.2	proline-rich protein MP2 - mouse (fragment)	pir A24264 A24264	31% 34% 33% 34% 53% 39% 39% 39%	632 584 632 620 742 790 790 790	48 51 138 225 659 659 659 659

HSQEK12	1044577	704	blastx.2	similar to Human Sp2 protein (M97190) [Homo sapiens]	dbj BAA05923.1	41% 38%	790 790	662 662
HPDRZ16	1044618	705	blastx.2	(AF106473) leucine-rich-domain inter-acting protein 1; LeR 1	gb AAD17989.1	72%	424	834
HVCBC44	1044635	706	blastx	CTP synthetase homolog [Mus musculus]	gb AAB17729.1	77%	3	896
HP1AC22	1044711	707	blastx.2	D-E-A-D box protein [Drosophila melanogaster]	gb AAC14192.1	42% 47%	749 20	1738 493
HSODA53	1044741	708	blastx.2	(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	68% 73%	1316 1101	1657 1319
HE9ML74	1044760	709	blastx.2	coded for by C. elegans cDNA yk34b1.5; coded for by C. elegans 1 1 coded for by C. elegans cDNA yk46e8.3; coded fo	gb AAB00699.1	77% 41% 52% 21% 31%	940 465 6 315 450	1269 932 260 614 593
HPDRB76	1044762	710	blastx.2	adenylate kinase 2B [Homo sapiens]	gb AAC13881.1	100%	160	855
HSYDI55	1044769	711	blastx.2	(AF151819) CGI-61 protein [Homo sapiens]	gb AAD34056.1 AF151819 1	100% 97%	309 1067	1067 1174
HOGCI31	1044821	712	blastx.2	(AL110271) hypothetical protein [Homo sapiens]	emb CAB53709.1	96%	34	558

HNOKX86	1044893	713	blastx.2	(AF092138) HSPC033 [Homo sapiens]	gb AAD40380.1	100%	303	575
HTPHG81	1045117	714	blastx.2	(AL117402) hypothetical protein [Homo sapiens]	emb CAB55903.1	100%	537	1538
HPCTV49	1045379	715	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	100%	127	444
HHGDK68	1045464	716	blastx.2	(AL020993) dJ5O6.1 (casein kinase 1, epsilon) [Homo sapiens]	emb CAA15888.1	89% 100%	124 765	858 1013
HNOKM3 8	1045500	717	blastx.2	transducin (beta) like 1 protein [Homo sapiens]	emb CAA73319.1	99%	120	1640
HHFUN47	1045842	718	blastx.2	(AF099028) putative transmembrane protein cmp44E [Drosophila melanogaster]	gb AAD12254.1	49% 52% 27% 83%	2 2 1007 865	1135 952 2368 882
HE9EJ82	1046856	722	blastx.2	beta-signal sequence receptor [Homo sapiens]	dbj BAA07206.1	96%	24	173
HODHS68	1047137	724	blastx.2	(AK000826) unnamed protein product [Homo]	dbj BAA91390.1	99%	528	1220

HOPKT59	1047169	725	blastx.2	sapiens] p23 [Homo sapiens]	gb AAAI8537.1	100%	335	814
HMCFK45	1047212	726	blastx.2	(AF182844) VPS28 protein [Homo sapiens]	gb AAF00499.1 AF1 82844_1	100%	124	786
HPIAN63	1047381	727	blastx.2	(AF011792) cell cycle progression 2 protein [Homo sapiens]	gb AAB69312.1	100% 94% 78% 26% 38% 30%	206 586 770 107 762 589	586 786 892 505 935 687
HNSME49	1047403	728	blastx.2	predicted using Genefinder [Caenorhabditis elegans]	emb CAB04731.1	55%	114	554
HWEAC64	1047473	729	blastx.2	ORF X (AA 1 - 393) [Escherichia coli]	emb CAA31134.1	98%	167	700
HOCQI51	1047483	730	blastx.2	(AB034912) WD- repeat like sequence [Homo sapiens]	dbj BAA92312.1	99% 96% 46% 46%	99 967 939 1081	1004 1479 977 1119
HOPKE15	1047634	731	blastx.2	putative RNA-binding protein [Schizosaccharomyces pombe]	emb CAB11047.1	36% 30%	509 141	1432 401
HMAEL73	1047646	732	blastx.2	(AL157427) hypothetical protein [Homo sapiens]	emb CAB75652.1	100%	754	2463
HNOKE42	1047663	733	blastx.2	(AF116272) T-cell activation protein [Homo sapiens]	gb AAD38498.1 AF1 16272_1	100%	65	445

HOFAE31	1047670	734	blastx.2	ubiquinol--cytochrome c reductase (EC 1.10.2.2) 11K protein - bovine	pir A001119 CCBO11	93% 92%	2 180	181 221
HNOAC93	1047820	736	blastx.2	(AB016092) RNA binding protein [Homo sapiens]	dbj BAA83718.1	100%	69	305
HMEJA45	1047848	737	blastx.2	(AF091242) ATP sulfurylase/APS kinase 2 [Homo sapiens]	gb AAC64583.1	87%	166	399
HLDAS11	1047937	738	blastx.2	Similar to Human C219-reactive peptide (L34688) [Homo sapiens]	dbj BAA13448.1	99% 91% 32%	233 52 503	958 249 907
HWMJB31	1048009	739	blastx.2	DARPP- 32=DOPAMINE AND CAMP-REGULATED PHOSPHOPROTEIN.	sp G545790 G545790	94%	169	729
HAZAA31	1048188	740	blastx.2	transketolase [Homo sapiens]	gb AAA98961.1	100% 76%	778 92	1959 1033
HOCMC83	1048300	741	blastx.2	hypothetical protein [Schizosaccharomyces pombe]	emb CAB11599.1	30%	446	1279
HCFCS40	1048427	742	blastx.2	(AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	46%	17	1231
HVCAA65	1048595	743	blastx.2	(AF022815) proteasome subunit XAPC7 [Homo sapiens]	gb AAB81515.1	100%	191	934

HSPSI76	1048635	744	blastx.2	prolyl 4-hydroxylase alpha (II) subunit [Homo sapiens]	gb AAB71339.1	99%	208	1578
HVVCH35	1048658	745	blastx.2	(AF177385) cytochrome c oxidase assembly protein isoform 2 [Homo sapiens]	gb AAF05313.1 AF1 77385_1	99%	436	1233
HOFNI66	1048739	746	blastx.2	signal peptidase complex 25 kDa subunit [Canis familiaris]	gb AAA21254.1	95%	33	710
HMSKI90	1048792	747	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	39% 28% 45% 100%	3258 1452 2039 327	2377 1180 1944 310
HSYBI49	1049151	748	blastx.2	(AF101051) senescence-associated epithelial membrane protein [Homo sapiens]	gb AAD16433.1	100%	173	805
HTXSN37	1049372	749	blastx.2	(AL080159) hypothetical protein [Homo sapiens]	emb CAB45750.1	47% 46%	1154 408	1861 530
HMUBT31	1049466	750	blastx.2	serine palmitoyltransferase, subunit I [Homo sapiens]	emb CAA69941.1	100%	11	1429
HFPDO90	1049644	751	blastx.2	Similarity to yeast hypothetical protein PIR accession number	emb CAA94801.1	100%	516	611

					1 1 this gene; cDNA EST yk504c7.3 comes from this gene; cDN					
HVVCB79	1050102	752	blastx.2		urokinase [synthetic construct]	emb CAA00829.1	95% 96%	213 1067	1139 1504	
HDPGR19	1050167	753	blastx.2		(AL031733) dJ45J7.1 (cellular repressor of E1A-stimulated genes CREG) [Homo sapiens]	emb CAB42866.1	100%	11	670	
HVVDX63	1050256	754	blastx.2		interferon regulatory factor 1 [Homo sapiens]	gb AAA36043.1	100%	212	1186	
HNOJA87	1050282	755	blastx.2		NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 1 ERYTHROID DERIVED 2, LIKE 2) (HEBP1).	sp Q16236 NFL2_HU MAN	99%	643	2415	
HTPGI65	1050419	756	blastx.2		ESX [Homo sapiens]	gb AAB58075.1	100%	161	1273	
HHFGN14	1050536	757	blastx.2		DNA binding protein [Homo sapiens]	dbj BAA08565.1	99% 97% 53% 31% 32% 40% 28% 46%	1818 405 121 203 465 3017 1464 2939	2738 995 810 421 833 3136 1784 2983	
HTAIN76	1050553	758	blastx.2		(AF016903) agrin precursor [Homo	gb AAC39776.1	98% 96%	371 3	1300 416	

					sapiens]				36%	614	1252
									32%	614	1291
									45%	3	416
									31%	3	440
									38%	386	721
									40%	426	557
									26%	98	430
									32%	465	665
									35%	19	198
									27%	1125	1331
									58%	3	38
									40%	541	648
									58%	155	196
HL YBO89	1050702	759	blastx.2	caltractin [Homo sapiens]	emb CAA51467.1			100%	42	557	
HMEKJ82	1050767	760	blastx.2	serine/threonine protein kinase Krs-1 [Homo sapiens]	gb AAB17261.1			95%	196	597	
HOFNX17	1050969	761	blastx.2	annexin I [Oryctolagus cuniculus]	gb AAC78495.1			91%	188	574	
HAOSY21	1051095	762	blastx.2	(AF151048) HSPC214 [Homo sapiens]	gb AAF36134.1 AF151048_1			45%	571	672	
HMWDB3 9	1051115	763	blastx.2	V-1 protein [Rattus norvegicus]	dbj BAA05167.1			85%	174	569	
HAOSZ53	1051246	764	blastx.2	(AF028823) Tax interaction protein 1 [Homo sapiens]	gb AAB84248.1			99%	245	598	
HSODP14	1051256	765	blastx.2	p0071 protein [Homo sapiens]	emb CAA57478.1			100%	56	403	
								82%	244	522	
								96%	53	247	
								53%	385	624	

[illegible]

HDDMT56	1052261	775	blastx.2	[Homo sapiens] (AF110775) adrenal gland protein AD-002 [Homo sapiens]	gb AAF14858.1 AF1 10775_1	100%	158	844
HVVAVW0 2	1052553	776	blastx.2	sorcin CP-22 [Homo sapiens]	gb AAA60588.1	100%	59	652
HOGCS42	1052557	777	blastx.2	(AB000712) CPE- receptor [Homo sapiens]	dbj BAA22984.1	100%	226	852
HAZAA59	1052593	778	blastx.2	CUG-BP/hNab50 [Homo sapiens]	gb AAC50895.1	90%	50	745
HMALJ21	1052874	780	blastx.2	(AC002397) C9 [Mus musculus]	gb AAC36017.1	52% 49% 40%	632 243 1826	1033 650 1915
HL YAR61	1053037	781	blastx.2	nuclear protein essential for dosage compensation. [Caenorhabditis elegans]	gb AAA92286.1	64%	282	431
HLTCQ80	1053164	782	blastx.2	(AF064801) multiple membrane spanning receptor TRC8 [Homo sapiens]	gb AAC39930.1	87%	2	622
HDTDU67	1053171	783	blastx.2	54k protein (AA 1-504) [Canis familiaris]	emb CAA34385.1	100%	512	697
HMABL01	1053173	784	blastx.2	(AK001782) unnamed protein product [Homo sapiens]	dbj BAA91907.1	100%	609	1289

HACMU05	1053236	785	blastx.2	(AB002405) LAK-4p [Homo sapiens]	dbj BAA24179.2	99% 100% 60%	1804 1301 815	2631 1813 889
HOVDF79	1053369	786	blastx.2	pumilio protein [Drosophila melanogaster]	gb AAB59189.1	66% 28% 27%	39 42 42	653 518 521
HVVBJS4	1053547	787	blastx.2	CRP [Homo sapiens]	dbj BAA11212.1	100%	95	610
HOFMU50	1053548	788	blastx.2	heparan sulfate 2- sulfotransferase [Cricetulus longicaudatus]	dbj BAA20422.1	90%	374	532
HE9MO38	1053585	789	blastx.2	phosphoenolpyruvate carboxykinase (GTP) [Homo sapiens]	emb CAA72272.1	100% 48% 53%	77 486 387	220 587 431
HOPJF55	1053725	790	blastx.2	microfibril-associated glycoprotein [Homo sapiens]	gb AAA79920.1	100%	150	698
HAOTD13	1053746	791	blastx.2	casein kinase-II beta [Oryctolagus cuniculus]	gb AAA91892.1	100%	164	808

HOCPT34	1053973	793	blastx.2	p0071 protein [Homo sapiens]	emb CAA57478.1	98%	1	2334
HFKHC64	1054015	794	blastx.2	(AF058448) herpesvirus entry protein B [Homo sapiens]	gb AAC23797.1	99%	178	1614
HOPKO37	1054085	795	blastx.2	drebrin E2 [Homo sapiens]	gb AAA16256.1	99%	2	1063
HNBVO53	1054122	796	blastx.2	p160 [Homo sapiens]	gb AAC17708.1	89% 46% 31% 36% 90% 31% 37%	50 639 1871 883 36 754 952	2332 1403 2380 1119 68 1101 1173
HCQDQ11	1054196	798	blastx.2	cytochrome c oxidase subunit 3 [Homo sapiens]	dbj BAA77671.1	93%	25	777
HTFML39	1054230	799	blastx.2	secreted cyclophilin-like protein [Homo sapiens]	gb AAA36601.1	100%	226	873
HOGCR32	1054235	800	blastx.2	similar to mouse CC1. [Homo sapiens]	dbj BAA13194.1	90% 62% 35%	15 160 128	110 204 169
HFCDL60	1054288	801	blastx.2	(AF005038) secretory carrier membrane protein [Homo sapiens]	gb AAB62723.2	99% 66%	152 2	919 46
HODEC13	1054400	802	blastx.2	(AC007059) Human homolog of Mus musculus wizL protein	gb AAD19818.1	87%	3	722

HUSYA18	1054451	803	blastx.2	[AA 4-1561] [Homo sapiens] DNA/RNA-binding protein [Homo sapiens]	gb AAA75623.1	89% 28% 76% 39% 47%	35 161 1 591 3	553 484 39 689 59
HOCON42	1054527	804	blastx.2	DYNAMIN 2.	sp P50570 DYN2_HUMAN	95% 74% 30% 28% 38%	545 162 1276 1666 2190	1588 734 1638 1914 2246
HKMNH37	1054550	805	blastx.2	(AL031115) ZXDA, ZXDB (zinc finger X-linked protein) [Homo sapiens]	emb CAB36858.1	50%	37	720
HPDWP21	1054662	806	blastx.2	(AF178534) talin [Homo sapiens]	gb AAF27330.1	99% 78%	63 35	797 76
HOGCS52	1054677	807	blastx.2	(AJ245621) CTL2 protein [Homo sapiens]	emb CAB75542.1	99%	36	1388
HWCMCK60	1054751	808	blastx.2	(AF125099) HSPC038 protein [Homo sapiens]	gb AAD39916.1 AF125099_1	100%	258	485
HWLOU33	1054790	809	blastx.2	lac repressor protein (gtg start codon) [Escherichia coli]	gb AA24052.1	96%	18	401
HKZBM58	1054812	810	blastx.2	sin3 associated polypeptide p18 [Homo sapiens]	gb AAC51322.1	100%	126	584
HTEOV06	1054813	811	blastx.2	sin3 associated polypeptide p18 [Homo sapiens]	gb AAC51322.1	95%	317	799

HTEHP29	1055174	813	blastx.2	sapiens] protein related N- terminus of tre oncogene [Homo sapiens]	dbj BAA02807.1	97%	7	585
HNOJJ32	1055248	814	blastx.2	PRAJA1 [Mus musculus]	gb AAC00205.1	73% 45% 30% 55%	1084 841 100 1908	1989 1620 948 1985
HFPHF52	1055304	815	blastx.2	(AB006625) The human homolog of a mouse imprinted gene, Peg3. [Homo sapiens]	dbj BAA22956.1	98% 90% 31% 27% 30% 24% 27% 26% 30% 26% 32% 24% 20% 34% 55% 26% 28% 28% 25%	2 1290 251 62 197 11 44 62 146 5 605 278 35 221 1308 1290 1437 596 1287	1348 1682 979 1276 895 1333 1324 1273 895 856 1003 1147 979 484 1445 1676 1676 829 1769

HBNMF62	1055381	816	blastx.2	(AK000538) unnamed protein product [Homo sapiens]	dbj BAA91239.1	26%	1308	1676
HTPHO72	1055426	817	blastx.2	EF-hand protein [Homo sapiens]	emb CAA55343.1	100%	98	1048
HOPKL18	1055439	818	blastx.2	stromelysin-3 precursor [Homo sapiens]	emb CAA40918.1	100%	2	1438
HTXKD84	1055467	820	blastx.2	Hlark [Homo sapiens]	gb AAC51293.1	97%	111	581
						58%	571	1191
						55%	839	1006
HTXRR82	1055480	821	blastx.2	myosin IC [Dictyostelium discoideum]	gb AAC37427.1	42%	522	1310
						32%	1433	1504
HAIBU62	1055582	822	blastx.2	(AL133070) hypothetical protein [Homo sapiens]	emb CAB61393.1	99%	154	1518
HDTAY29	1055632	823	blastx.2	(AJ250865) TESS 2 [Homo sapiens]	emb CAB65119.1	99%	65	625
HCOQD79	1055767	824	blastx.2	(AF118394) putative	gb AAD45242.1 AF1	98%	201	689

					18394_1	100%	76	210
HAM1N1 2	1055899	825	blastx.2	nucleotide binding protein [Homo sapiens] Similarity to EGF domain; cDNA EST EMBL:T02406 comes from this gene [Caenorhabditis elegans]	emb CAA94773.1	28% 36%	53 263	559 562
HODIY67	1056000	826	blastx.2	(AF167160) protein inhibitor of activated STAT-1 [Homo sapiens]	gb AAD49722.1 AF167160_1	99%	8	1957
HNTRS57	1056097	827	blastx.2	similar to ankyrin motifs; cDNA EST CEMSH89F comes from this 1 1 cDNA EST EMBL:D33056 comes from this gene; cDNA EST E	emb CAA99881.1	45%	2	853
HUKFL74	1056102	828	blastx.2	fsh-like protein [Mus musculus]	emb CAA66186.1	98%	1	168
HTEBF05	1056104	829	blastx.2	Wnt7a protein [Homo sapiens]	gb AAC51319.1	100%	9	344
HOPKD19	1056275	830	blastx.2	B-cell receptor associated protein [Homo sapiens]	gb AAB51324.1	100%	188	1084
HLICR58	1056290	831	blastx.2	(AF181467) protein Z-dependent protease inhibitor precursor [Homo sapiens]	gb AAD53962.1 AF181467_1	98%	3	932

HAJAH48	1056400	833	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	7	111
HSKJC61	1056407	834	blastx.2	(AF095448) putative G protein-coupled receptor [Homo sapiens]	gb AAC98506.1	100% 33%	366 265	1436 327
HEEBK29	1056454	835	blastx.2	(AF018081) type XVIII collagen [Homo sapiens]	gb AAC39658.1	95% 42% 43% 42% 46% 44% 45% 44% 38% 36% 26% 38% 35% 34% 37% 31% 25% 36% 44% 44% 29% 29% 32% 40%	1036 1036 1033 1036 1264 1429 1486 1036 1594 1327 1032 743 743 668 3777 1015 3672 3572 658 728 1432 2846 565 4021	3060 2118 2133 2166 2166 2118 2118 1632 2118 2109 2117 940 934 931 4139 1251 4190 3694 771 841 1587 3154 771 4119

							38%	677	784
							37%	749	901
							27%	707	910
							35%	2753	2905
							32%	3524	3607
							50%	3120	3161
							40%	3087	3161
							27%	3789	3971
							50%	3108	3161
							33%	3579	3731
							40%	3087	3164
							40%	2129	1140
							37%	2108	1104
							35%	2129	1056
							38%	2039	1140
							37%	2129	1053
							37%	2015	1140
							39%	2105	1140
							35%	2129	1056
							32%	2108	1164
							35%	1910	1050
							38%	2111	1230
							37%	2108	1368
							38%	2111	1566
							37%	2111	1566
							43%	2039	1692
							43%	2105	1800
							38%	2108	1632
							30%	2707	1859
							37%	2108	1608

1863	2117	43%					
2204	2680	30%					
1046	1468	32%					
2207	2707	32%					
4695	4790	45%					
2791	2997	28%					
3534	3599	52%					
2077	2394	32%					
3555	3629	48%					
3983	4135	37%					
1987	2394	27%					
2083	2457	29%					
3489	3692	29%					
1934	2020	51%					
3788	3997	32%					
2797	3015	33%					
3677	3877	36%					
3677	3862	32%					
3083	3163	48%					
2839	2988	28%					
4643	4843	29%					
2050	2394	33%					
1055	1183	32%					
676	894	30%					
2706	2825	25%					
80	178	33%					
2785	2892	38%					
2050	2157	36%					
4090	4128	61%					
4090	4131	50%					

HCHMM1 9	1056617	836	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	47%	2801	2751
HE8NG02	1056625	837	blastx.2	(AL035608) dJ479J7.1 (similar to CHONDROMODULI N-1) [Homo sapiens]	emb CAB55680.1	93%	271	1011
HWHKD2 2	1056654	838	blastx.2	(AF094760) RFXANK [Homo sapiens]	gb AAC69883.1	59%	56	715
HOCPJ87	1056666	839	blastx.2	protein-tyrosine- phosphatase (EC 3.1.3.48) 11A - human	pir A60345 A60345	99%	34	1125
HAAAAA59	1056671	840	blastx.2	(AF151793) ALG-2 interacting protein 1 [Homo sapiens]	gb AAF08220.1 AF1 51793_1	99% 56%	162 6007	2765 6048
HOSBJ18	1056672	841	blastx.2	finger protein 1, placental - human	pir A32891 A32891	99% 68% 65% 65% 62% 61% 56% 40% 61%	752 830 914 998 590 548 482 2203 2239	2026 2095 2191 2221 1858 1774 1606 2322 2277
HUSGX12	1056736	842	blastx.2	GATA-6 [Homo sapiens]	dbj BAA22621.1	100%	2	838
HPDRG02	1056764	843	blastx.2	protein disulfide isomerase-related protein [Homo sapiens]	gb AAA58460.1	99% 42% 41%	26 26 1031	1405 523 1366

HKZBB48	1056767	844	blastx.2	(AB022663) HFB30 [Homo sapiens]	dbj BAA78677.1	40%	1055	1327
HHAWB1 9	1056774	845	blastx.2	(AF140242) encephalopsin [Homo sapiens]	gb AAD32671.1 AF1 40242_1	98%	111	1316
HHATP38	1056786	846	blastx.2	VEGF related factor isoform VRF167 precursor [Homo sapiens]	gb AAA91463.1	100%	87	650
HVVB07	1056801	847	blastx.2	(AF003944) ovalbumin upstream promoter beta nuclear receptor rCOUPb [Rattus norvegicus]	gb AAB61297.1	97% 32%	702 185	983 328
HKAHB85	1056804	848	blastx.2	ear-2 gene product [Homo sapiens]	emb CAA31282.1	98%	4	831
HUSXA15	1056810	849	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	75% 62%	300 295	205 167
HNOCH54	1056839	850	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	30% 26% 26% 23% 24% 24% 24% 26%	727 556 727 703 703 706 892 703	1833 1875 1779 1809 1782 1812 1827 1812

								24%	727	1782
								21%	724	1833
								24%	733	1827
								25%	883	1827
								26%	856	1824
								22%	28	1236
								23%	883	1833
								21%	865	1836
								22%	856	1827
								23%	988	1833
								22%	730	1836
								24%	4	852
								25%	1	876
								22%	715	1782
								32%	7	408
								31%	145	690
								24%	31	876
								23%	976	1830
								28%	1	456
								25%	31	852
								22%	16	885
								23%	382	1359
								23%	745	1527
								20%	22	843
								26%	1	906
								28%	7	408
								26%	1	411
								24%	424	1296
								30%	10	411
								23%	724	1251

31%	406	684
29%	1	282
27%	343	675
29%	31	420
22%	430	1401
32%	430	681
27%	337	675
27%	184	411
23%	1012	1635
28%	406	843
26%	337	753
27%	1627	1896
23%	1120	1521
24%	997	1401
34%	430	576
30%	421	675
27%	10	408
24%	1357	1785
31%	430	684
29%	358	681
24%	376	765
25%	1618	1803
29%	427	681
28%	352	681
25%	427	1308
32%	424	678
25%	349	690
29%	259	501
22%	1108	1743
21%	364	1359

						1273	1554
						424	768
						412	720
						961	1383
						427	693
						430	1308
						409	1311
						634	1236
						430	1383
						1123	1458
						427	576
						430	690
						1648	1818
						1267	1698
						427	678
						421	681
						418	654
						1651	1827
						1648	1827
						1072	1401
						1288	1869
						388	573
						424	771
						499	1077
						1621	1953
						1375	1635
						1279	1527
						427	681
						430	681
						430	699

							1812
							1830
							1830.
							1782
							684
							1827
							1644
							1254
							1527
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							1533
							1827
							678
							432
							1488
							1812
							1509
							420
							1827
							1527
							1347
							1644
							681
							1782
							675
							1311
							678
							654
							684
							693

						20%	907	1245
						25%	1288	1584
						20%	1075	1905
						22%	1120	1383
						21%	1207	1806
						26%	409	675
						25%	28	411
						22%	1285	1509
						26%	16	435
						25%	1648	1917
						23%	1648	1812
						37%	1463	1567
						18%	1072	1530
						21%	1369	1929
						24%	1648	1782
						25%	1642	1782
						22%	1012	1401
						27%	338	454
						22%	1651	1839
						23%	1174	1509
						26%	1357	1734
						23%	1369	1626
						21%	1375	1635
						16%	754	1788
						26%	440	631
						24%	427	798
						25%	1	165
						25%	124	429
						23%	1651	1800
						22%	1648	1830

[illegible]

HOCPP16	1056856	851	blastx.2	insulin-like growth factor binding protein 2 [Homo sapiens]	gb AAA03246.1	50%	814	849
						45%	1863	1928
HNOAH83	1056862	852	blastx.2	platelet-endothelial tetraspan antigen 3 [Homo sapiens]	gb AAA87064.1	100%	127	393
						25%	1120	1236
HE2OU10	1056875	853	blastx.2	OTK27 [Homo sapiens]	dbj BAA23363.1	100%	36	650
HODGM4 6	1056927	854	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	68%	90	848
							5	229
HODFR44	1056990	855	blastx.2	(AL137516) hypothetical protein [Homo sapiens]	emb CAB70782.1	99%	11	469
						42%	14	343
						47%	20	319
						50%	71	313
						48%	14	274
						34%	14	403
						38%	14	313
						38%	38	313
HCHND12	1057009	856	blastx.2	(AF121963) receptor tyrosine kinase precursor [Gallus gallus]	gb AAD31764.1 AF121963_1	77%	136	321
						77%	299	403
						37%	6	155
						42%	48	131
						32%	45	155
						42%	63	176
						38%	54	155

HBHAC29	1057157	857	blastx.2	myelin-associated glycoprotein precursor [Homo sapiens]	gb AAA59545.1	98% 90% 39% 100%	2 427 20 786	424 759 400 815
HTPFW87	1057170	858	blastx.2	carboxyl ester lipase [Homo sapiens]	gb AAA51973.1	98% 34% 39% 35% 37% 36% 36% 34% 34% 34%	5 1620 2154 2160 2136 2160 2160 2109 2010 1977	2206 2084 1687 1690 1687 1705 1768 1681 1687 1687
HISAF60	1057212	859	blastx.2	junctional adhesion molecule [Mus musculus]	gb AAC32982.1	38%	116	988
HRABO80	1057219	860	blastx.2	(AL050143) hypothetical protein [Homo sapiens]	emb CAB43289.1	100%	1590	1937
HADDF30	1057260	861	blastx.2	transcription regulatory protein Evi-1, short form - human	pir B60191 B60191	98% 22%	1 7	1155 858
HDAAS58	1057272	862	blastx.2	(AC005003) similar to zinc finger protein MAZ [Homo sapiens]; similar to AAB04121.1 (PID:g995935)	gb AAF01349.1 AC0 05003_1	77%	263	676
HSDZG15	1057307	863	blastx.2	Homology with Squid retinal-binding protein	emb CAA91418.1	68% 47%	3 1212	713 1274

HPDVY52	1057393	864	blastx.2	(PIR Acc. No. 1.1 laminin alpha 5 chain [Mus musculus])	gb AAC53430.1	64% 47%	6 1165	1196 1380
HHESW02	1057478	865	blastx.2	(AF062075) leupaxin [Homo sapiens])	gb AAC16014.1	100% 34%	95 896	1252 1258
HVVBW8 4	1057561	866	blastx.2	(AB003184) ISLR [Homo sapiens])	dbj BAA22848.1	100%	342	1625
HSLJC80	1057797	868	blastx.2	prolargin [Homo sapiens])	gb AAC18782.1	32% 32% 28% 28% 29% 34%	353 899 686 1109 1663 262	1228 1573 1420 1657 1980 357
HEOAD12	1057842	869	blastx.2	(AF116865) hedgehog- interacting protein [Mus musculus])	gb AAD31172.1 AF1 16865_1	70%	533	1069
HVVBT41	1057880	870	blastx.2	(AL035587) dJ475N16.1 (CTG4A) [Homo sapiens])	emb CAB75301.1	100%	439	1272
HAZAE42	1057915	871	blastx.2	cellular retinol binding protein [Homo sapiens])	emb CAA30318.1	100%	255	659
HPRBN60	1057948	872	blastx.2	(AF002282) alpha- actinin-2 associated LIM protein [Homo sapiens])	gb AAC16672.1	99%	72	1019
HOVCZ68	1057958	873	blastx.2	folliculin 1 precursor - human	pir A32141 A32141	99%	1	987
H6EDF71	1057979	874	blastx.2	antigenic surface determinant OA3...	emb CAA49196.1	99%	92	1021

HCOOF60	1058001	875	blastx.2	[Homo sapiens] ubiquitin carrier protein E2 - human	pir B42856 B42856	99%	133	855
HVVVBH81	1058059	876	blastx.2	hnRNP U protein [Homo sapiens]	emb CAA46472.1	99%	227	2644
HSPTJ51	1058172	877	blastx.2	SWI/SNF complex 155 KDa subunit [Homo sapiens]	gb AAC50693.1	95% 90% 29%	51 51 45	1004 1043 1055
HOPKC80	1058174	878	blastx.2	(AJ011497) Claudin-7 [Homo sapiens]	emb CAA09626.1	99%	348	980
HOCPT58	1058250	879	blastx.2	(AF037261) SH3- containing adaptor molecule-1 [Homo sapiens]	gb AAC09244.1	100% 94%	121 19	765 126
HPCTP25	1058287	880	blastx.2	gamma- aminobutyraldehyde dehydrogenase [Homo sapiens]	gb AAB18827.1	98%	72	1553
HODKM5 2	1058305	881	blastx.2	(AB008789) grb7 protein [Homo.sapiens]	dbj BAA29059.1	98%	58	999
HCONB89	1058316	882	blastx.2	acid ceramidase [Homo sapiens]	gb AAC50907.1	99%	118	1302
HBPND88	1058432	884	blastx.2	carboxyl terminal LIM domain protein [Homo sapiens]	gb AAC05580.1	99%	142	1128
H6EEO05	1058438	885	blastx.2	(AL117423) hypothetical protein [Homo sapiens]	emb CAB55915.1	99%	100	1527
HFIVR61	1058451	886	blastx.2	interferon beta 2a	emb CAA00839.1	99%	214	777

HVVVBX28	1058458	887	blastx.2	[Homo sapiens] SH3 domain-containing protein SH3P17 [Homo sapiens]	gb AAC50592.1	96% 49% 36%	53 308 104	493 466 301
HVVBI38	1058475	888	blastx.2	factor H [Homo sapiens]	emb CAA68704.1	99% 25% 26% 25% 28% 27%	294 336 294 501 1083 1185	2291 2264 2291 2219 2288 2099
HUKEJ46	1058539	889	blastx.2	(AF081507) signaling molecule LEFTY-B [Homo sapiens]	gb AAC33967.1	98% 99%	479 70	1165 489
HDTFT47	1058588	890	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA36236.1	98% 91%	2 258	268 398
HSSFS71	1058596	891	blastx.2	ESP1/CRP2 [Homo sapiens]	dbj BAA07703.1	95% 77% 34%	29 41 219	460 265 512
HSDJH63	1058612	892	blastx.2	(AB045180) toll-like receptor 9 [Homo sapiens]	dbj BAB19259.1	92% 100% 52% 45% 58%	192 107 128 122 131	1358 190 184 181 181
HAHGD24	1058622	893	blastx.2	laminin alpha 5 chain [Mus musculus]	gb AAC53430.1	61%	80	1024
HTAEV85	1058723	894	blastx.2	(AJ005566) SPR2H protein [Mus musculus]	emb CAA06595.1	43% 64% 50% 35%	408 2500 1784 544	256 2459 1719 485
HPMME44	1058928	895	blastx.2	HCMVUL126 [human]	emb CAA35328.1	96%	78	329

HSPSG28	1058977	897	blastx.2	herpesvirus 5] 26S protease subunit [Sus scrofa]	emb CAA61863.1	99% 88%	483 56	1679 82
HTGFW12	1059006	898	blastx.2	homolog of yeast mutL gene [Homo sapiens]	gb AAA63923.1	98% 94% 68%	83 1522 1431	1438 2670 1667
HOFT75	1059050	899	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 80%	7 414	456 743
HARNB17	1059085	900	blastx.2	HCMVUL126 [human herpesvirus 5]	emb CAA35328.1	98%	241	492
HPDRG65	1059102	901	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	69% 69% 83%	434 253 288	273 128 253
HAOSG15	1059145	902	blastx.2	(AF026291) chaperonin containing t-complex polypeptide 1, delta subunit; CCT- delta [Homo sapiens]	gb AAC96010.1	100%	160	1776
HHEND31	1059180	903	blastx.2	(AF117330) unknown [Rattus norvegicus]	gb AAD26207.1 AF1 17330 1	73%	175	1827
HBMSN62	1059186	904	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	86%	1102	1251
HOVCJ46	1059241	905	blastx.2	(AF037272) WAP four-disulfide core	gb AAC40055.1	87% 70%	41 175	214 336

HWLEP14	1059394	906	blastx.2	domain protein [Rattus norvegicus] (AF117646) long CBL-3 protein [Homo sapiens]	gb AAD34341.1 AF117646_1	99%	92	1348
HDABR73	1059532	908	blastx.2	bikunin [Homo sapiens]	gb AAC02781.1	100%	436	1191
HOGAJ24	1059626	909	blastx.2	Similar to Human testican (S33293) [Homo sapiens]	dbj BAA13404.1	100%	427	1698
HTJMV05	1059692	910	blastx.2	protein tyrosine phosphatase [Homo sapiens]	gb AAA50779.1	100%	5	685
HOOL70	1059710	911	blastx.2	hematopoietic cell phosphatase [Homo sapiens]	gb AAA35963.1	100% 37% 32% 30%	212 188 2209 2219	1996 508 2310 2296
HUNAE87	1059743	912	blastx.2	(AF062317) p120 catenin isoform 1B [Homo sapiens]	gb AAC39802.1	99%	158	955
HTPHO01	1059764	913	blastx.2	(AF169284) LIM and cysteine-rich domains protein 1 [Homo 1]	gb AAF34411.1	97%	125	1048
HDPWK69	1059784	914	blastx.2	(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1)	emb CAA20980.2	52%	275	496

HPCOK03	1059849	915	blastx.2	(AF008551) aurora-related kinase 1 [Homo sapiens]	gb AAC12708.1	99%	59	1267
HOOJC15	1059967	917	blastx.2	(AL117639) hypothetical protein [Homo sapiens]	emb CAB56027.1	98%	575	1216
HODFG47	1059969	918	blastx.2	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gb AAD30062.1	100%	215	1213
HBIPC05	1060137	919	blastx.2	(AF078798) extracellular signal-regulated kinase 7; ERK7 [Rattus norvegicus]	gb AAD12719.1	62%	23	832
HOPJJ32	1060193	920	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HNOBN20	1060382	921	blastx.2	unknown protein [Homo sapiens]	gb AA88036.1	43%	1362	1150
HOCPX74	1060391	922	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	47%	1487	1380
HTEPP27	1060415	923	blastx.2	PF20 [Chlamydomonas reinhardtii]	gb AAB41727.1	91%	18	656
HL YAJ79	1060495	924	blastx.2	ATPase subunit 6 [Homo sapiens]	dbj BAA07295.1	39%	207	581
HCOOQ11	1060656	925	blastx.2	sialidase [Homo sapiens]	emb CAA55356.1	79%	197	808
						70%	1	189
						100%	189	308

HWMGI51	1060711	926	blastx.2	hypothetical protein [Synecocystis sp.]	dbj BAA10294.1	41%	16	615
HDPJG33	1060780	927	blastx.2	GTP binding protein [Mus musculus]	emb CAA36803.1	78% 68% 37%	543 439 933	863 699 1061
HLYAE20	1060967	928	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	67%	1002	1259
HKZAR86	1060972	929	blastx.2	ERF-2 [Homo sapiens]	emb CAA55592.1	99%	322	1302
HAOTX62	1061036	930	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	100%	77	298
HOCQG58	1061180	931	blastx.2	26S PROTEASOME REGULATORY SUBUNIT S2 (P97) (TUMOR 1 1	sp Q13200 PSD2_HU MAN	100%	63	2786
HOFNH33	1061185	932	blastx.2	MRAS2 gene product [Mucor racemosus]	gb AAA83994.1	31%	260	823
HAJAQ63	1061238	933	blastx.2	matrin 3 [Rattus norvegicus]	gb AAB63955.1	90% 94% 54% 98% 24% 31% 35% 35% 40%	1038 293 2361 3308 2634 2646 1755 3362 3837	2570 1105 2810 3478 2813 2759 1847 3454 3896
HVVVK70	1061258	934	blastx.2	(AJ000414) Cdc42- interacting protein 4 [Homo sapiens]	emb CAA04062.1	92% 100% 28%	653 31 627	1276 468 1055
HVVBA82	1061332	935	blastx.2	(AL022313)	emb CAA18439.1	100%	3	500

					dJ1119A7.1 (mitochondrial thioredoxin) [Homo sapiens]						
HWLLG38	1061388	936	blastx.2		neurocalcin [Bos taurus]	dbj BAA01706.1	100%	114	692		
HTPCH84	1061466	937	blastx.2		(AF104419) decoy receptor 3 [Homo sapiens]	gb AAD03056.1	99% 100%	103 938	945 1000		
HLGDA34	1061543	939	blastx.2		(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	71% 73%	3 1766	254 1641		
HAICB08	1061629	940	blastx.2		rhoHP1 [Homo sapiens]	dbj BAA19652.1	100%	3	326		
HVVAW6 0	1061694	941	blastx.2		(AF151882) CGI-124 protein [Homo sapiens]	gb AAD34119.1 AF1 51882 1	100%	244	741		
HPDVB50	1061708	942	blastx.2		(AJ002030) progesterone binding protein [Homo sapiens]	emb CAA05152.1	100%	33	206		
HAZAY40	1061765	943	blastx.2		tight junction (zonula occludens) protein ZO- 1 [Homo sapiens]	gb AAA02891.1	100%	3	1631		
HACMZ51	1061766	944	blastx.2		contains 10 ankyrin- like repeats; similar to human ankyrin, 1 bursaria Chlorella virus 1]	gb AAC96986.1	33% 28% 32% 30%	118 73 100 88	957 726 657 561		
HUXAL63	1061790	945	blastx.2		100 kDa protein [Rattus norvegicus]	emb CAA45756.1	98%	2	1300		

HLCLX57	1061886	946	blastx.2	latent transforming growth factor-beta- binding protein-2, 1 1	gb AAB37459.1	99% 37% 32% 34% 45% 40% 41% 42% 38% 36% 32% 34% 34% 34% 43% 35% 45% 47% 31% 46% 35% 40% 29% 35% 38% 40% 41% 34% 29% 28%	3 447 27 21 696 693 696 681 666 693 666 684 657 666 12 696 6 15 9 3 678 3 9 3 3 246 837 3 15 99	953 941 398 398 941 914 941 929 941 914 989 929 929 941 167 929 149 149 377 155 914 149 365 155 143 371 944 143 188 215
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HMALF63	1061935	947	blastx.2	factor activating exoenzyme S [Bos taurus]	gb AAA30514.1	35%	118	252
HACMR36	1062057	948	blastx.2	(AK000963) unnamed protein product [Homo sapiens]	dbj BAA91446.1	86% 99% 27% 34% 33% 27% 50%	181 29 1141 1460 1710 1883 1506	1290 391 1323 1528 1805 2170 1553
HAOSM08	1062079	949	blastx.2	(AF059617) serum- inducible kinase [Homo sapiens]	gb AAC14573.1	99%	284	2338
HTEFM89	1062084	950	blastx.2	(AF162680) STRIN protein [Homo sapiens]	gb AAD46623.2 AF1 62680 1	99%	500	1234
HCHAK72	1062123	951	blastx.2	(AF113596) mosaic serine protease epitheliasin [Mus musculus]	gb AAF21308.1	47%	95	1165
HPAME12	1062139	952	blastx.2	retinoic acid- and interferon-inducible 58K protein RI58 [Homo sapiens]	gb AA84934.1	100%	209	1654
HCE4F10	1062309	954	blastx.2	(AL050060) hypothetical protein [Homo sapiens]	emb CAB43253.1	97%	798	1535

HBCBE63	1062328	955	blastx.2	(AF007170) unknown [Homo sapiens]	gb AAC39582.1	100% 69% 87% 57%	191 87 25 1	790 251 96 63
HSSJO19	1062346	956	blastx.2	endonuclease G [Bos taurus]	emb CAA51320.1	97% 24%	361 1093	248 887
HE8NQ23	1062369	957	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	99% 100% 87%	574 416 171	1419 571 263
HTELJ95	1062431	958	blastx.2	(AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	99%	272	949
HTPCP50	1062435	959	blastx.2	(AF111069) latrophilin 2 splice variant baaae [Bos taurus]	gb AAD05305.1	38% 47%	417 1997	2129 2044
HFKIT82	1062544	961	blastx.2	(AF152495) protocadherin beta 2 [Homo sapiens]	gb AAD43756.1 AF1 52495_1	98% 30% 26%	2 20 26	1663 1297 1267
HE2LW42	1062574	962	blastx.2	(AF090934) PRO0518 [Homo sapiens]	gb AAF24048.1 AF0 90934_1	100%	1267	1079
HOGCE44	1062586	963	blastx.2	protein tyrosine phosphatase (EC 3.1.3.48) [Homo sapiens]	gb AAA36528.1	99%	156	2561
HOVJJ72	1062626	964	blastx.2	latent TGF-beta binding protein-4 [Homo sapiens]	emb CAA73944.1	85% 91% 85%	547 203 1	1782 559 204

								37%	215	346
								37%	212	307
								42%	209	271
								29%	4	210
								55%	215	265
								30%	212	310
								29%	841	921
								32%	1766	1930
								32%	1667	1861
								58%	230	265
								29%	215	460
								56%	1764	1838
								58%	1792	1842
								63%	1859	1891
								40%	1391	1450
								37%	12	95
								37%	254	406
								66%	549	584
								87%	838	569
								34%	1633	1421
								69%	2007	1969
								30%	1621	1421
								38%	1024	938
								30%	1552	1352
								63%	1525	1493
								70%	1295	1266
HODBT14	1062628	965	blastx.2	guanine nucleotide exchange factor [Homo sapiens]	gb AAA35914.1	100%	15	320		
HBOEB83	1062629	966	blastx.2	thrombospondin-4	emb CAA79635.1	95%	4	1392		

HODCT96	1062631	967	blastx.2	[Homo sapiens] repressor transcriptional factor [Homo sapiens]	gb AAA79179.1	74% 74% 73% 56% 40% 69% 69% 41% 78% 67% 66% 71% 73% 77% 71% 75% 70% 69% 71% 64% 63% 72% 38% 49%	2 2 2 2 2 2 2 2 250 2 2 250 250 259 250 250 250 250 250 250 250 250 2 253	247 247 247 337 514 247 247 490 468 247 259 468 462 468 468 468 456 471 468 468 468 423 313 459
HTXJE60	1062655	968	blastx.2	(AK000642) unnamed protein product [Homo sapiens]	dbj BAA91301.1	50%	171	1112
HUSIQ62	1062679	969	blastx.2	high mobility group 2 protein [Homo sapiens]	gb AA58659.1	100% 31%	188 143	814 472

HKBAK29	1062718	971	blastx.2	(AF161525) HSPC177 [Homo sapiens]	gb AAF29140.1 AF1 61525_1	100% 93%	975 42	1562 140
HPMCX26	1062743	972	blastx.2	LIMK-2 [Homo sapiens]	dbj BAA08312.1	97%	365	649
HFKHF51	1062785	973	blastx.2	(AF177203) cerebral cell adhesion molecule [Homo sapiens]	gb AAD51367.1 AF1 77203_1	99%	360	1910
HUCPE28	1062795	974	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	36% 36% 36% 38% 27%	728 728 735 734 119	1063 958 1055 949 460
HPWAH30	1062840	975	blastx.2	zinc finger protein [Homo sapiens]	gb AAA59469.1	98% 77% 76% 76% 81% 75% 77% 75% 74% 76% 74% 75% 74%	1 1 1 1 1 1 1 1 1 1 10 1	705 705 705 705 666 702 696 705 705 705 705 705 705

74%	1	705
72%	1	705
73%	1	705
72%	1	705
71%	1	705
72%	1	705
71%	1	705
71%	1	705
71%	1	705
70%	1	705
71%	1	705
71%	1	705
71%	1	705
67%	1	705
63%	1	705
59%	163	705
52%	702	815
51%	723	815
51%	723	815
42%	702	815
48%	723	815
42%	702	815
45%	723	815
39%	702	815
45%	723	815
39%	702	815
39%	702	815
46%	726	815
45%	723	815

H6EDQ51	H6EDQ51R	976	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	36%	702	815
HA5AU29	HA5AU29R	977	blastx.2	amyloid-beta protein [Homo sapiens]	gb AAB59501.1	85%	723	806
HACBX26	HACBX26R	978	blastx.2	NADH dehydrogenase subunit 1 [Homo sapiens]	dbj BAA07290.1	89%	702	815
HACMH72	HACMH72R	982	blastx.2	TraC protein (gtg start codon) [Plasmodium falciparum]	gb AAA24905.1	93%	723	815
HACMS55	HACMS55R	985	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	100%	723	815
HACMX77	HACMX77R	986	blastx.2	protein kinase C inhibitor-1 [Homo sapiens]	gb AAA82926.1	100%	726	809
HACMZ45	HACMZ45R	987	blastx.2	Keratin 8 [Homo sapiens]	emb CAA52882.1	100%	726	815
						43%	726	815
						95%	10	210
							2	190
							2	259
							35	478
							3	116
							42	419
							3	245

HACND54	HACND54 R	988	blastx.2	(AC003956) acetolactate synthase [Homo sapiens]	gb AAB94632.1	67%	2	466
HACNF21	HACNF21R	991	blastx.2	40-kDa keratin protein [Homo sapiens]	gb AAA36044.1	86%	3	608
HACNF41	HACNF41R	992	blastx.2	cytokeratin 8 (279 AA) [Homo sapiens]	emb CAA31376.1	100%	2	91
HACNI47	HACNI47R	993	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	95%	96	500
HADET44	HADET44R	996	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	95%	62	481
HAHHD12	HAHHD12 R	998	blastx.2	(AF016252) Spinophilin [Rattus norvegicus]	gb AAB72005.1	92%	481	522
HALSG11	HALSG11R	999	blastx.2	(AC004544) cytochrome C oxidase; match to P14406 (PID:g117121) [Homo sapiens]	gb AAC12952.1	74%	116	376
HAOSB87	HAOSB87R	1002	blastx.2	delta- aminolevulinate synthase (housekeeping) [Homo sapiens]	emb CAA39794.1	74%	54	134
HAOSE70	HAOSE70R	1004	blastx.2	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	73%	1	549
HAOSF68	HAOSF68R	1005	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	88%	166	267
						55%	273	359
						90%	76	576

HAOSG95	HAOSG95 R	1006	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	111	452
HAOSI79	HAOSI79R	1007	blastx.2	ribosomal protein L7 [Homo sapiens]	gb AAA03081.1	95%	10	330
HAOSJ27	HAOSJ27R	1008	blastx.2	polyubiquitin - tobacco hornworm (fragments)	pir JH0302 JH0302	100% 100% 75% 73% 49% 39% 72%	2 2 135 135 156 223 223	142 142 233 224 332 405 255
HAOSJ33	HAOSJ33R	1009	blastx.2	lactate dehydrogenase- A [Homo sapiens]	emb CAA26879.1	95%	3	353
HAOSK38	HAOSK38 R	1011	blastx.2	Ku protein subunit [Homo sapiens]	gb AAA36155.1	100%	4	303
HAOSL36	HAOSL36R	1012	blastx.2	S- adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	94% 96% 71% 88%	30 224 336 1	200 379 494 27
HAOSL47	HAOSL47R	1013	blastx.2	(AF155581) proteasome subunit beta 7 [Danio rerio]	gb AAD53521.1 AF1 55581_1	91% 93% 55% 80%	86 4 432 340	343 96 572 429
HAOTE06	HAOTE06R	1021	blastx.2	(AF132947) CGI-13 protein [Homo sapiens]	gb AAD27722.1 AF1 32947_1	98%	2	451
HAOTF90	HAOTF90R	1023	blastx.2	carboxyl methyltransferase [Homo sapiens]	dbj BAA02991.1	94%	3	170
HAOTI07	HAOTI07R	1026	blastx.2	HL23 ribosomal protein [Homo sapiens]	emb CAA39417.1	96% 84%	36 398	365 454

HAOTT79	HAOTT79R	1027	blastx.2	CYTOSKELETON-ASSOCIATED PROTEIN CKAPI (TUBULIN FOLDING COFACTOR B).	sp Q99426 CKAP_HUMAN	80%	361	405
HAOTU79	HAOTU79R	1028	blastx.2	ME491 antigen precursor (AA -1 to 237) [Homo sapiens]	emb CAA30792.1	97%	57	452
HAOTW22	HAOTW22R	1029	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HUMAN	100%	1	201
HAPNK45	HAPNK45R	1032	blastx.2	cytochrome c oxidase subunit 1 [Homo sapiens]	dbj BAA07292.1	90% 79% 90% 100%	2 274 473 261	262 516 535 281
HAPPR43	HAPPR43R	1033	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	42%	146	472
HAQML40	HAQML40R	1035	blastx.2	ribosomal protein L39 [Homo sapiens]	dbj BAA11465.1	98%	106	258
HAUAK54	HAUAK54R	1037	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	62%	12	245
HAZAC68	HAZAC68R	1042	blastx.2	lumican [Homo sapiens]	gb AAA91639.1	97% 26% 36%	3 3 3	587 551 500
HAZAD13	HAZAD13R	1043	blastx.2	human elongation factor-1-delta [Homo sapiens]	emb CAA79716.1	74% 60%	53 250	478 555

HAZAE44	HAZAE44R	1045	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	98% 46% 40% 39% 36% 35% 33%	84 105 105 123 69 105 18	512 335 413 347 392 344 347
HAZAG23	HAZAG23R	1046	blastx.2	unnamed protein product [Homo sapiens]	emb CAA62211.1	96%	2	466
HAZAI89	HAZAI89R	1051	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HU MAN	100%	72	260
HAZAJ72	HAZAJ72R	1052	blastx.2	protein arginine N- methyltransferase [Rattus norvegicus]	gb AAC52622.1	97% 58% 81% 34%	1 497 579 537	537 580 611 605
HAZAQ80	HAZAQ80R	1053	blastx.2	(AF064205) dynactin I p135 isoform [Homo sapiens]	gb AAD55812.1	100%	84	389
HAZBI39	HAZBI39R	1056	blastx.2	(AL031427) dJ167A19.3 (novel protein) [Homo sapiens]	emb CAB46723.1	100%	83	424
HAZBJ69	HAZBJ69R	1057	blastx.2	transmembrane protein	emb CAA66947.1	100%	3	323

HBJHY72	HBJHY72R P00B	1063	blastx.2	[Oryctolagus cuniculus] (AL117434) hypothetical protein [Homo sapiens]	emb CAB55922.1	98%	1	297
HBXCG52	HBXCG52 R	1065	blastx.2	(AK001079) unnamed protein product [Homo sapiens]	dbj BAA91496.1	89% 46%	371 457	427 606
HCAC53	HCAC53R P00A	1067	blastx.2	histone H3 [Spisula solidissima]	gb AAA29965.1	90% 100% 86%	313 116 506	507 244 574
HCHAJ85	HCHAJ85R	1068	blastx.2	hemolysin [Acanthamoeba polyphaga]	gb AAA58585.1	61%	206	57
HCHMM7 1	HCHMM71 R	1069	blastx.2	(AC003040) unknown protein [Arabidopsis thaliana]	gb AAC23757.1	58% 44%	2 249	244 329
HCLBH21	HCLBH21R	1071	blastx.2	cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	91% 88%	3 415	416 600
HCOMA72	HCOMA72 R	1073	blastx.2	NuMA protein - human	pir S33413 S33413	100%	115	273
HCOMB04	HCOMB04 R	1074	blastx.2	prolylcarboxypeptidase [Homo sapiens]	gb AAA99891.1	98% 55%	77 702	718 782
HCOMD38	HCOMD38 R	1075	blastx.2	phospholipid hydroperoxide glutathione peroxidase [Homo sapiens]	emb CAA50793.1	100%	39	275
HCOMD61	HCOMD61	1076	blastx.2	(AF047470) malate	gb AAC03787.1	87%	1	216

	R				dehydrogenase precursor [Homo sapiens]			75%	240	287
HCOMF52	HCOMF52 R	1078	blastx.2		hypothetical protein 384D8_6 [Homo sapiens]	gb AAB03345.1		80%	14	655
HCOMG28	HCOMG28 R	1079	blastx.2		elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1		71% 100%	100 54	522 98
HCOMG40	HCOMG40 R	1080	blastx.2		ribosomal protein L15 [Rattus norvegicus]	emb CAA55026.1		76%	35	646
HCOMI30	HCOMI30R	1083	blastx.2		ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1		85%	315	491
HCOMI37	HCOMI37R	1084	blastx.2		similar to 40S ribosomal protein; cDNA EST CEMSA13F comes from 1 1 gene; cDNA EST EMBL:M79582 comes from this gene; cDN	emb CAA86061.1		59% 66% 64%	304 89 518	540 301 568
HCOML11	HCOML11 R	1085	blastx.2		fused-ccdB [Escherichia coli]	emb CAA71575.1		90%	273	470
HCOMM55	HCOMM55 R	1087	blastx.2		The polymorphysm (RFLP) of this gene is associated with 1 1	dbj BAA03853.1		100%	298	176
HCOMO58	HCOMO58 R	1088	blastx.2		(AF042857) lung cancer antigen NY-LU-12 variant A [Homo	gb AAC05826.1		98%	4	282

HCOMW5 2	HCOMW52 RP00B	1089	blastx.2	sapiens] (AB032025) ubiquitin [Canis familiaris]	dbj BAA83996.1	99%	60	443
HCOMX77	HCOMX77 R	1090	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTE IN A1 1 (HNRNP CORE PROTEIN A1).	sp P09651 ROA1_H UMAN	65% 96% 100% 57% 53% 48% 34% 57% 62% 44% 45% 75% 50%	133 5 81 5 8 5 142 11 81 5 11 81 116 84	315 82 122 82 76 82 291 82 128 82 79 116 119
HCONC18	HCONC18 RP00B	1091	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 91% 83% 71%	3 190 335 426	188 333 424 467
HCONK56	HCONK56 R	1093	blastx.2	ribosomal protein L18 [Homo sapiens]	gb AAA16329.1	100% 57%	104 567	616 665
HCONL49	HCONL49 R	1095	blastx.2	ribosomal protein S13 [Homo sapiens]	dbj BAA13528.1	98%	3	221
HCONO17	HCONO17 R	1099	blastx.2	(AC004240) match to Z43555 (NID:g572788) [Homo sapiens]	gb AAC04502.1	81% 71%	4 65	69 148
HCONO25	HCONO25 R	1100	blastx.2	5,10- methenyltetrahydrofolate synthetase [Homo	gb AAC41945.1	77% 87% 100%	251 147 3	610 245 68

HCONP44	HCONP44R	1101	blastx.2	sapiens]		pir A33281 A33281	51%	481	579
				H+-transporting ATP synthase (EC 3.6.1.34) 58K chain - human			96%	3	398
HCONR31	HCONR31R	1104	blastx.2	[Homo sapiens]		emb CAA35893.1	98%	3	281
HCONU03	HCONU03R	1105	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]		gb AAA52496.1	92%	3	518
							92%	511	627
							53%	611	688
HCONW6	HCONW62R	1106	blastx.2	Human tetracycline transporter-like protein mRNA [Homo sapiens]		emb CAA92577.1	77%	1	297
							85%	330	473
							69%	529	645
							36%	6	119
HCOOG32	HCOOG32R	1111	blastx.2	ornithine decarboxylase antizyme [Homo sapiens]		dbj BAA13497.1	97%	5	334
HCOOG37	HCOOG37R	1112	blastx.2	ribosomal protein S17 [Homo sapiens]		gb AAA60284.1	92%	78	482
HCOOI71	HCOOI71R	1114	blastx.2	calpactin I light chain [Bos taurus]		gb AAA30423.1	100%	64	354
HCOOI79	HCOOI79R	1115	blastx.2	beta-subunit [Bos taurus]		emb CAA29094.1	77%	215	703
							50%	681	740
HCOOM18	HCOOM18R	1116	blastx.2	keratin 18 [Homo sapiens]		gb AAA59461.1	95%	14	640
							100%	616	690
HCOOM73	HCOOM73R	1117	blastx.2	claudin-10 [Homo sapiens]		gb AAC79506.1	90%	26	694
HCOOQ46	HCOOQ46	1118	blastx.2	protein-tyrosine		emb CAA48338.1	100%	2	166

HCOOT43	R				phosphatase [Homo sapiens]					
HCOOT43	HCOOT43 R	1120	blastx.2		neutral protease alpha subunit [Homo sapiens]	gb AAA35646.1	100%	95	439	
HCOOT68	HCOOT68 R	1121	blastx.2		(AF019661) zeta proteasome chain; PSMA5 [Mus musculus]	gb AAC69149.1	99% 77%	171 473	470 652	
HCOOU56	HCOOU56 R	1122	blastx.2		(AF143815) ribosomal protein [Bos taurus]	gb AAD33912.1 AF143815_1	55% 62% 52%	30 233 698	515 406 748	
HCOOW72	HCOOW72 R	1123	blastx.2		keratin 18 [Homo sapiens]	gb AA59461.1	78%	49	552	
HCOOX48	HCOOX48 R	1126	blastx.2		(AF095770) PTH-responsive osteosarcoma D1 protein [Homo sapiens]	gb AAD25980.1 AF095770_1	87% 83%	218 330	310 365	
HCOOY43	HCOOY43 R	1127	blastx.2		THIOREDOXIN PEROXIDASE 1 (THIOREDOXIN-DEPENDENT PEROXIDE 1 (NATURAL KILLER CELL ENHANCING FACTOR B) (NKEF-B)).	sp P32119 TDX1_HUMAN	91%	22	426	
HCOPB03	HCOPB03R	1129	blastx.2		ribosomal protein L19 - rat	pir A56846 A56846	98% 62%	11 367	367 573	

HCOPC45	HCOPC45R	1130	blastx.2	homologue of yeast IPP isomerase [Homo sapiens]	emb CAA34890.1	96%	3	89
HCOPD67	HCOPD67R	1131	blastx.2	ubiquitin conjugating-protein [Oryctolagus cuniculus]	gb AAA31492.1	91%	104	541
HCOPE27	HCOPE27R	1132	blastx.2	serine protease homolog=NES1 [human, mammary epithelial cells, 76N, Peptide, 276 aa] [Homo sapiens]	gb AAB46780.1	99%	2	400
HCOP109	HCOP109R A	1134	blastx.2	fused; toxic gene [synthetic construct]	emb CAA67127.1	77%	62	310
HCOPO34	HCOPO34R	1136	blastx.2	(AF026246) HERV-E envelope glycoprotein [Homo sapiens]	gb AAC52076.1	65%	122	337
HCOPO88	HCOPO88R	1138	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	74%	4	507
HCOPV41	HCOPV41R	1139	blastx.2	MEMD protein [Homo sapiens]	emb CAA71256.1	97%	3	593
HCOPZ15	HCOPZ15R	1140	blastx.2	(AL031228) dJ1033B10.9 (Short-chain alcohol dehydrogenase family member (HKE6, RING2)) [Homo sapiens]	emb CAA20237.1	96% 83%	7 572	579 625

HCOQA38	HCOQA38 R	1141	blastx.2	sapiens] hBD-1 [Homo sapiens]	emb CAA63405.1	100%	68	271
HCOQB12	HCOQB12 R	1143	blastx.2	(AC005600) tuberin [Homo sapiens]	gb AAC34210.1	100% 84%	4 308	309 346
HCOQD29	HCOQD29 R	1147	blastx.2	S3 ribosomal protein [human, colon, Peptide, 243 aa] [Homo sapiens]	gb AAB19349.1	93% 55% 60%	16 552 632	588 707 730
HCOQD38	HCOQD38 R	1148	blastx.2	HMG1 protein (AA 1 - 215) [Bos taurus]	emb CAA31284.1	95%	112	636
HCOQD49	HCOQD49 R	1149	blastx.2	H+-transporting ATP synthase (EC 3.6.1.34) gamma chain precursor - bovine	pir A32019 PWBOG	89% 65%	35 513	532 692
HCOQG37	HCOQG37 R	1151	blastx.2	1-8D [Homo sapiens]	emb CAA40625.1	99% 100%	51 386	386 409
HCOQH46	HCOQH46 R	1153	blastx.2	mucin MUC5B [Homo sapiens]	gb AAC51343.1	100% 64%	95 324	343 365
HCOQJ06	HCOQJ06R	1156	blastx.2	37kD Laminin receptor precursor /p40 ribosomal associated protein [Gallus gallus]	emb CAA64147.1	85% 58%	26 352	361 474
HCOQJ07	HCOQJ07R	1157	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	88%	6	656
HCOQJ79	HCOQJ79R	1159	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	83%	1	471
HCOQK86	HCOQK86 R	1160	blastx.2	(AF038129) polyubiquitin [Ovis]	gb AAB92373.1	94% 94%	4 4	456 456

					aries]				93%	28	456
HCOQL87	HCOQL87 R	1161	blastx.2		glutathione S- transferase-pi [Homo sapiens]	gb AAA56823.1			97%	4	255
HCOQM87	HCOQM87 R	1162	blastx.2		DRPLA protein [Mus musculus]	dbj BAA13450.1			56%	440	487
HCOQO79	HCOQO79 R	1163	blastx.2		TIMP [Homo sapiens]	emb CAA00898.1			30%	440	556
HCOQP32	HCOQP32R	1164	blastx.2		elongation factor 1- alpha [Homo sapiens]	gb AAA52367.1			30%	440	556
HCOQS11	HCOQS11R	1165	blastx.2		acidic ribosomal phosphoprotein (P2) [Homo sapiens]	gb AAA36472.1			56%	24	521
HCOQU92	HCOQU92 R	1167	blastx.2		protein translocation complex beta subunit [Canis familiaris]	gb AAA19639.1			41%	328	630
HCOQV27	HCOQV27 R	1168	blastx.2		B4-2 protein [Homo sapiens]	gb AAA85576.1			52%	3	278
HCOQX38	HCOQX38 R	1169	blastx.2		catechol O- methyltransferase [Homo sapiens]	emb CAA81263.1			47%	17	307
HCOQY33	HCOQY33 R	1170	blastx.2		(AB00910) ribosomal protein [Sus scrofa]	dbj BAA19210.1			99%	2	574
HCOQZ86	HCOQZ86	1173	blastx.2		MHC class II HLA-	gb AAA59782.1			61%	561	608
									95%	15	149
									64%	151	381
									78%	102	398
									100%	91	270
									100%	272	301
									96%	3	239
									96%	32	421
									91%	421	489
									80%	495	539
									100%	1	30
									96%	49	321
									92%	106	357

	R			DR-beta-1 [Homo sapiens]			77%	351	470
HCORB20	HCORB20 R	1175	blastx.2	(AB012122) TIP49 [Homo sapiens]	dbj BAA28169.1		98%	68	292
HCORB66	HCORB66 R	1177	blastx.2	ribosomal protein L28 [Homo sapiens]	gb AA85657.1		94%	75	482
HCORI18	HCORI18R	1178	blastx.2	hnRNP B1 protein [Homo sapiens]	dbj BAA06031.1		100%	120	317
							100%	2	124
							56%	126	305
							49%	123	305
							50%	129	305
HCORI25	HCORI25R	1179	blastx.2	pm5 protein [Homo sapiens]	emb CAA40655.1		44%	120	317
							43%	132	317
							39%	2	124
HCQCR82	HCQCR82 R	1180	blastx.2	NADH dehydrogenase subunit 3 [Homo sapiens]	dbj BAA77672.1		98%	3	419
HCRME42	HCRME42 R	1181	blastx.2	IGF binding protein-2 [Sus scrofa]	gb AAC48728.1		91%	3	245
							90%	247	276
HDABR53	HDABR53 R	1182	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1		87%	1	369
							59%	297	416
HDTAQ74	HDTAQ74 R	1185	blastx.2	(AF112208) 13kDa differentiation-associated protein [Homo sapiens]	gb AAF17196.1 AF112208_1		47%	332	427
							97%	38	463
HDTBP08	HDTBP08R	1186	blastx.2	UbcH5C [Homo sapiens]	gb AAA91461.1		61%	115	408
							90%	38	136
							53%	326	409
							100%	273	293
							97%	255	470

HDTDB88	HDTDB88 R	1188	blastx.2	cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	89% 88%	27 259	275 441
HE8QX44	HE8QX44R	1190	blastx.2	(AF010472) alpha- amidating monooxygenase [Homo sapiens]	gb AAD01439.1	93% 95% 80%	49 272 475	288 475 549
HE9QU94	HE9QU94R	1191	blastx.2	alligator Wilm's tumour protein [Alligator mississippiensis]	emb CAA59735.1	100%	3	170
HEAHF02	HEAHF02R	1192	blastx.2	(AC004044) predicted protein of unknown function [Arabidopsis thaliana]	gb AAD15346.1	37%	62	376
HEEAY40	HEEAY40R	1193	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	100%	3	128
HEGAF68	HEGAF68R	1194	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	89% 89%	3 178	179 321
HFABK01	HFABK01R	1196	blastx.2	NADH dehydrogenase subunit 2 [Homo sapiens]	dbj BAA07291.1	80% 69%	2 186	190 284
HFIBG63	HFIBG63R	1198	blastx.2	cytokine SDF-1-beta [Homo sapiens]	gb AAA97434.1	96%	152	406
HFIBJ15	HFIBJ15R	1199	blastx.2	cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	2	517
HFIXK57	HFIXK57R	1200	blastx.2	URF 3 (NADH dehydrogenase subunit)	emb CAA24033.1	90%	5	325

HFIZQ64	HFIZQ64R	1201	blastx.2	[Homo sapiens] (AK001601) unnamed protein product [Homo sapiens]	dbj BAA91782.1	100%	48	137
HFKKK36	HFKKK36 R	1202	blastx.2	neutral calponin [Homo sapiens]	dbj BAA12090.1	96%	3	86
HFPEC93	HFPEC93R	1203	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	87% 90%	66 1	527 66
HFPIX37	HFPIX37R	1204	blastx.2	(AL137696) hypothetical protein [Homo sapiens]	emb CAB70878.1	51% 41%	4 1	240 258
HFTDK36	HFTDK36R	1205	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100% 38%	90 341	290 514
HFVIB28	HFVIB28R	1206	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	70%	26	175
HFXGR60	HFXGR60R	1207	blastx.2	(AF034746) LNXp70 [Mus musculus]	gb AAC40076.1	56%	347	57
HHAUD07	HHAUD07 R	1208	blastx.2	GTP-binding regulatory protein Gs alpha chain isoform - 1	pir JH0813 JH0813	75%	337	459
HHBFO21	HHBFO21R	1209	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	83% 82% 64%	3 248 205	236 328 246
HHEVG50	HHEVG50 R	1210	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	93%	13	474
HHFGQ65	HHFGQ65 RA	1211	blastx.2	(AJ249731) putative G8.1 protein [Homo]	emb CAB56506.1	81% 77%	107 25	319 129

HHSFG15	HHSFG15R	1213	blastx.2	sapiens] (AF014888) NADH dehydrogenase subunit 2 [Homo sapiens]	gb AAC25447.1	78%	3	743
HHSGP15	HHSGP15R	1214	blastx.2	cytochrome oxidase subunit III [Talpa europaea]	emb CAB71165.1	74% 62%	2 517	529 717
HHSQG17	HHSQG17 R	1215	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	89%	79	435
HKBAD05	HKBAD05 R	1216	blastx.2	(AB015335) HRIHFB2072 [Homo sapiens]	dbj BAA88116.1	84% 100%	61 324	351 356
HKZAE07	HKZAE07R	1218	blastx.2	Na ⁺ , K ⁺ -ATPase beta- subunit precursor [Sus scrofa]	gb AAA31002.1	100%	1	138
HKZAI14	HKZAI14R	1220	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	100%	3	368
HKZAI68	HKZAI68R A	1221	blastx.2	antigen [Homo sapiens]	gb AAA02999.1	100%	2	79
HKZAQ39	HKZAQ39 R	1222	blastx.2	ubiquitin-conjugating enzyme UbcH7 [Homo sapiens]	emb CAA63538.1	100%	19	480
HKZAR58	HKZAR58 R	1223	blastx.2	(AC005545) AP-3 complex delta subunit, partial CDS [Homo 1]	gb AAC34214.1	98%	3	266
HKZAS59	HKZAS59R	1224	blastx.2	ATP synthase beta subunit precursor [Homo sapiens]	gb AAA51809.1	100%	1	462
HKZAS64	HKZAS64R	1225	blastx.2	nephropontin [Homo sapiens]	gb AAA17675.1	98%	1	276

HKZAS84	HKZAS84R	1226	blastx.2	sapiens] calpain II regulatory subunit (EC 3.4.22.17) [Bos taurus]	gb AAA30422.1	100%	2	103
HKZAV69	HKZAV69 R	1227	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	100%	8	412
HKZAV72	HKZAV72 R	1228	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	100%	2	163
HKZBB22	HKZBB22R	1230	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	100%	8	520
HKZBS89	HKZBS89R	1231	blastx.2	ferritin heavy subunit [Homo sapiens]	gb AAA35830.1	100%	1	381
HLDDQQ80	HLDDQQ80 R	1232	blastx.2	ATPase subunit 6 [Papio hamadryas]	emb CAA76999.1	74% 54%	2 153	142 257
HLDXE19	HLDXE19R	1233	blastx.2	neuron-restrictive silencer factor [Homo sapiens]	gb AAC50115.1	80%	17	187
HLICD55	HLICD55R	1234	blastx.2	glutamine:fructose-6- phosphate amidotransferase [Homo sapiens]	gb AAA58502.1	96%	56	148
HLJBI37	HLJBI37R	1236	blastx.2	H(+)-transporting ATP synthase [Bos taurus]	emb CAA45865.1	100% 65% 80% 60% 88%	165 329 83 481 450	335 610 187 555 476
HLTHA47	HLTHA47R	1237	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	82% 88%	187 380	393 406

HLTJA50	HLTJA50R	1238	blastx.2	(AK002071) unnamed protein product [Homo sapiens]	dbj BAA92068.1	63%	334	723
HLYDI57	HLYDI57R	1241	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	90%	2	565
HMCFO19	HMCFO19R	1242	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	46%	104	361
HMCIZ44	HMCIZ44R	1243	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	86% 74% 40%	1 377 207	342 517 389
HMCJE25	HMCJE25R	1244	blastx.2	cytochrome oxidase subunit I [Hyllobates lar]	emb CAA67630.1	82% 77%	3 298	314 351
HMSPB25	HMSPB25R	1245	blastx.2	alcohol dehydrogenase [Homo sapiens]	gb AAA51596.1	75%	315	172
HMVBB04	HMVBB04R	1246	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland I	pir C59153 C59153	86%	73	201
HNAAE01	HNAAE01R	1247	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	67% 67% 100% 100% 100% 100% 100% 100%	95 96 90 89 92 91 93 94 91	196 197 155 154 157 156 158 159 153
HNBUY37	HNBUY37R	1249	blastx.2	smooth muscle myosin	gb AAB28951.1	95%	77	289

	R				heavy chain isoform SM1 [human, umbilical 1				
HNBVL57	HNBVL57 R	1250	blastx.2	1250	growth-arrest-specific protein 2 [Homo sapiens]	gb AAC52058.1	74% 55%	242 70	514 384
HNHBC18	HNHBC18 R	1251	blastx.2	1251	OS9 [Homo sapiens]	gb AAC39523.1	100% 41% 46% 35%	1 245 315 244	243 403 404 435
HNJFE85	HNJFE85R	1252	blastx.2	1252	(AL031670) dJ681N20.2 (similar to FTL1 (ferritin, light 1	emb CAB43181.1	97%	224	451
HNKCO29	HNKCO29 R	1253	blastx.2	1253	(AF044957) NADH:ubiquinone oxidoreductase B15 subunit [Homo sapiens]	gb AAD05421.1	95%	52	390
HNOAA22	HNOAA22 R	1254	blastx.2	1254	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	91%	114	422
HNOAB88	HNOAB88 R	1257	blastx.2	1257	actin 2 protein [Strongylocentrotus purpuratus]	gb AAA30032.1	83% 81%	3 509	491 541
HNOAC15	HNOAC15 R	1259	blastx.2	1259	unnamed protein product [unidentified]	emb CAB42187.1	93%	1	87
HNOAE50	HNOAE50 R	1260	blastx.2	1260	ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	98%	98	577
HNOAE65	HNOAE65 R	1261	blastx.2	1261	ribosomal protein L26 [Homo sapiens]	emb CAA49189.1	100%	101	535

HNOAF22	HNOAF22 R	1262	blastx.2	ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	100%	76	555
HNOAG34	HNOAG34 R	1264	blastx.2	collagen alpha 1(I) chain - bovine (fragments)	pir A91193 CGBO1S	64%	54	239
						72%	1	108
						75%	221	319
						37%	3	239
						67%	221	313
						39%	21	239
						44%	54	236
						36%	15	236
						37%	15	236
						44%	72	239
						39%	21	239
						42%	12	236
						38%	3	236
						38%	15	239
						45%	84	236
						48%	99	239
						35%	15	236
						41%	54	239
						35%	6	239
						36%	3	239
						62%	233	319
						42%	69	239
						47%	93	236
						36%	15	239
						38%	3	200
						45%	93	236
						35%	15	239
						38%	54	239

							44%	93	239
							41%	6	236
							37%	3	239
							41%	69	236
							35%	6	236
							34%	15	239
							44%	84	239
							48%	218	322
							35%	6	239
							36%	21	236
							33%	15	239
							36%	3	239
							32%	3	239
							48%	218	319
							36%	54	239
							52%	227	322
							35%	15	236
							50%	233	328
							54%	233	328
							51%	227	322
							46%	111	239
							47%	218	319
							33%	21	236
							53%	233	322
							57%	233	316
							42%	114	239
							57%	233	316
							53%	233	316
							50%	227	328
							51%	227	328

						38%	69	239
						33%	3	236
						53%	233	316
						59%	1	96
						36%	93	239
						45%	233	358
						51%	227	319
						50%	227	322
						45%	221	319
						47%	218	319
						51%	233	319
						45%	212	316
						46%	227	316
						46%	221	316
						50%	233	322
						44%	221	322
						44%	230	328
						45%	227	328
						44%	1	108
						38%	93	239
						45%	227	322
						50%	227	316
						50%	233	316
						50%	227	316
						50%	230	319
						43%	227	319
						46%	233	322
						46%	221	316
						48%	233	319
						46%	227	316

322	233	50%					
316	227	51%					
316	233	50%					
316	227	41%					
316	233	50%					
322	233	46%					
322	227	46%					
328	242	44%					
319	212	41%					
316	227	46%					
322	233	46%					
105	1	45%					
322	230	44%					
123	1	39%					
322	209	42%					
316	260	63%					
319	227	45%					
105	1	44%					
108	1	41%					
316	227	43%					
114	1	42%					
105	1	42%					
105	1	44%					
316	233	46%					
316	221	39%					
93	1	45%					
322	227	45%					
93	1	41%					
108	1	38%					
322	233	46%					

43%	233	322
42%	221	316
41%	1	108
39%	1	114
38%	1	108
40%	1	108
40%	212	316
41%	221	322
36%	1	108
38%	1	108
43%	233	328
38%	227	316
43%	227	316
43%	233	322
40%	221	316
37%	1	105
38%	1	108
43%	227	316
38%	1	93
47%	227	316
41%	1	93
40%	221	316
38%	227	316
38%	227	316
41%	1	93
38%	1	93
36%	1	108
38%	218	316
63%	260	316
37%	1	105

								108
							1	108
							1	108
							1	108
							227	316
							227	316
							221	316
							1	108
							321	362
							1	105
							1	108
							1	108
							1	93
							1	123
							212	322
							1	66
							1	105
							1	93
							1	93
							1	105
							1	105
							1	108
							221	328
							1	105
							212	316
							233	316
							1	93
							1	105
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							1	108

							41%	1	93
							38%	1	108
							33%	1	108
							31%	1	114
							37%	1	105
							33%	1	108
							40%	233	322
							35%	1	93
							31%	1	105
							34%	1	105
							37%	230	316
							40%	227	316
							38%	1	93
							33%	1	108
							37%	1	96
							39%	218	316
							31%	1	123
							38%	233	316
							36%	1	105
							38%	1	108
							39%	233	316
							40%	233	322
							38%	1	93
							36%	1	108
							37%	1	105
							36%	233	322
							32%	1	93
							33%	1	108
							30%	1	108
							35%	1	93

[illegible]

							37%	238	86
							30%	238	80
							45%	318	220
							42%	360	226
							48%	318	226
							31%	238	71
							51%	318	214
							26%	253	68
							50%	199	104
							38%	238	98
							46%	315	226
							46%	315	226
							44%	357	226
							38%	238	104
							37%	238	92
							45%	318	226
							40%	357	226
							43%	318	223
							39%	238	71
							44%	318	214
							39%	354	226
							46%	318	223
							44%	357	223
							41%	238	104
							35%	238	71
							38%	238	71
							34%	238	77
							45%	318	217
							44%	315	214
							43%	321	214

							44%	321	223
							39%	238	98
							35%	238	71
							47%	318	214
							42%	321	214
							33%	238	71
							36%	238	71
							50%	315	226
							40%	318	223
							44%	321	226
							35%	238	71
							33%	238	71
							35%	238	71
							34%	235	71
							35%	238	68
							35%	244	92
							38%	238	92
							33%	238	71
							35%	238	98
							35%	238	98
							35%	238	71
							45%	318	226
							47%	318	226
							47%	318	226
							45%	318	226
							43%	321	226
							42%	318	217
							36%	330	223
							44%	321	223
							44%	321	217

								34%	235	89
								43%	318	217
								40%	318	217
								41%	318	220
								35%	330	214
								41%	238	71
								47%	65	3
								40%	330	226
								41%	318	226
								37%	318	223
								37%	318	214
								44%	318	226
								39%	321	226
								38%	318	226
								43%	321	226
								40%	321	226
								41%	312	226
								40%	315	226
								39%	315	223
								44%	321	214
								56%	318	271
								50%	321	226
								40%	321	220
								38%	321	223
								34%	357	226
								40%	315	226
								38%	318	226
								38%	318	226
								52%	318	271
								35%	318	226

HNOAH67	HNOAH67 R	1266	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	38% 33%	56 65	3 3
HNOAJ67	HNOAJ67R	1267	blastx.2	(AB000911) ribosomal protein [Sus scrofa]	dbj BAA19211.1	100%	69	524
HNOAL51	HNOAL51 R	1270	blastx.2	(AD001528) spermidine aminopropyltransferase [Homo sapiens]	gb AAB61308.1	72% 75%	70 3	255 74
HNOAO71	HNOAO71 R	1273	blastx.2	MAP kinase kinase [Homo sapiens]	gb AAA36318.1	98%	62	283
HNOAP21	HNOAP21 R	1274	blastx.2	Q1Z 7F5 [Homo sapiens]	gb AAA36021.1	91%	20	667
HNOAQ24	HNOAQ24 R	1275	blastx.2	epoxide hydrolase [Homo sapiens]	gb AAA52390.1	89%	2	571
HNOAQ47	HNOAQ47 R	1276	blastx.2	TAXREB107 [Homo sapiens]	dbj BAA04491.1	99%	1	618
HNOAR85	HNOAR85 R	1278	blastx.2	(AF161378) HSPC260 [Homo sapiens]	gb AAF28938.1 AF1 61378_1	88% 92%	287 99	562 290
HNOAS07	HNOAS07 R	1279	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	97% 97%	96 1	521 108
HNOAS36	HNOAS36 R	1280	blastx.2	proteoglycan core protein [Homo sapiens]	gb AAB00774.1	100%	3	254
HNOAS92	HNOAS92 R	1281	blastx.2	glutathione transferase M1 [Homo sapiens]	gb AAA59203.1	100%	2	385
HNOAT76	HNOAT76 R	1283	blastx.2	(AB016193) transcription factor	dbj BAA36616.1	100%	2	187

HNOAV91	HNOAV91 R	1284	blastx.2	[Homo sapiens] ribosomal protein L28	gb AAA85657.1	99%	29	439
HNOBE83	HNOBE83 R	1286	blastx.2	[Homo sapiens] translation initiation factor eIF3 p40 subunit	gb AAD03465.1	100% 60% 79%	2 525 694	598 692 765
HNOBV55	HNOBV55 RA	1287	blastx.2	[Homo sapiens] ribosomal protein L12	gb AAA36157.1	100% 74%	171 65	506 217
HNOCE63	HNOCE63 R	1288	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	68% 30% 45%	2 442 393	388 819 557
HNOCL43	HNOCL43 R	1289	blastx.2	alpha-1 type III collagen [Homo sapiens]	gb AAA52002.1	98%	2	193
HNOCN02	HNOCN02 R	1290	blastx.2	TARBP-b gene product [Homo sapiens]	gb AAA91344.1	91%	7	666
HNOCN10	HNOCN10 R	1291	blastx.2	(AF043254) heat shock protein 75 [Homo sapiens]	gb AAC02679.1	90% 40% 100%	4 488 435	423 622 464
HNOCR44	HNOCR44 R	1292	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	80%	3	440
HNOCU03	HNOCU03 R	1293	blastx.2	translational elongation factor-1 alpha [Danio rerio]	emb CAA54771.1	74%	40	360
HNODG11	HNODG11 R	1295	blastx.2	tumor protein (AA 1 - 172) [Homo sapiens]	emb CAA34200.1	71% 70% 66% 85%	93 262 482 552	362 498 580 611

HNOJA93	HNOJA93R	1298	blastx.2	general transcription factor [Homo sapiens]	emb CAA37375.1	100%	1	453
HNOJB10	HNOJB10R	1299	blastx.2	(AF110731) antioxidant enzyme B166 [Homo sapiens]	gb AAF03750.1 AF110731_1	98% 53% 54%	11 384 418	376 521 480
HNOJB57	HNOJB57R	1300	blastx.2	midkine [Homo sapiens]	dbj BAA01457.1	74%	92	520
HNOJH48	HNOJH48R	1304	blastx.2	(AF077054) unr protein [Homo sapiens]	gb AAD27787.1 AF077054_1	100%	2	283
HNOJH52	HNOJH52R	1305	blastx.2	S-adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	100%	6	179
HNOJI82	HNOJI82R	1306	blastx.2	ubiquitin [synthetic construct]	gb AAA57047.1	94%	22	489
HNOJI85	HNOJI85R	1307	blastx.2	(AF035718) mesoderm-specific basic-helix-loop-helix protein; Pod-1 [Homo sapiens]	gb AAC62514.1	86%	13	513
HNOJJ20	HNOJJ20R	1308	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	98%	1	261
HNOJJ26	HNOJJ26R	1309	blastx.2	plasma gelsolin [Homo sapiens]	emb CAA28000.1	73%	2	568
HNOJK66	HNOJK66R	1310	blastx.2	von Willebrand factor prepropeptide [Homo sapiens]	gb AAB59512.1	90% 100% 26% 25% 25% 26%	1 408 16 13 307 91	459 491 396 324 402 405

HNOJM64	HNOJM64 R	1312	blastx.2	alpha-tubulin III [Cricetulus griseus]	gb AAA37026.1	69%	218	256
HNOJO55	HNOJO55R	1313	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	97%	3	428
						93%	423	277
						100%	134	9
						66%	134	9
						53%	423	277
						40%	423	268
						48%	131	9
						36%	143	3
						37%	423	289
						39%	402	286
						44%	116	9
						30%	423	280
						33%	128	12
						28%	128	12
						23%	128	3
						30%	128	12
						42%	408	310
						32%	423	289
						35%	426	265
						27%	137	3
						37%	396	280
						30%	408	280
						22%	146	12
						35%	119	9
						41%	357	280

HNOJP42	HNOJP42R	1314	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	28% 34% 37% 25% 23% 27% 35% 35% 28% 28% 39% 31% 35% 25% 43%	414 116 381 423 426 116 402 426 423 116 158 420 140 128 117	280 12 280 280 310 9 286 298 277 12 93 310 99 12 70
HNOJQ22	HNOJQ22R	1315	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb CAA12176.1	100% 100%	217 1	510 219
HNOKA20	HNOKA20 R	1316	blastx.2	signal recognition particle subunit 14 [Homo sapiens]	emb CAA51838.1	97%	38	259
HNOKG34	HNOKG34 R	1318	blastx.2	hnRNPCore protein A1 [Homo sapiens]	emb CAA56072.1	100% 31%	43 52	510 324
HNOKI89	HNOKI89R	1323	blastx.2	(AF009368) Luman [Homo sapiens]	gb AAB69652.1	100%	2	370
HNOKT24	HNOKT24 R	1326	blastx.2	ribosomal protein L6 [Homo sapiens]	emb CAA49188.1	89% 68%	74 3	457 191
HNOKU52	HNOKU52	1327	blastx.2	ribosomal protein L29	gb AAC50499.1	98%	33	509

	R			[Homo sapiens]				
HNOKV82	HNOKV82 R	1328	blastx.2	(AF081484) alpha-tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	100%	3	488
HNORA56	HNORA56 R	1330	blastx.2	MHC class I A [Pan troglodytes]	gb AAA88855.1	93% 91% 96%	2 348 289	289 494 363
HNORB68	HNORB68 R	1331	blastx.2	high mobility group protein 17 [Homo sapiens]	gb AAA52678.1	95%	4	186
HNORC14	HNORC14 R	1332	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	90%	2	496
HNORD11	HNORD11 R	1333	blastx.2	ribosomal protein L5 [Rattus norvegicus]	gb AAA42074.1	93% 91%	179 7	394 183
HNORE65	HNORE65 R	1334	blastx.2	ORF [Pan troglodytes]	dbj BAA01980.1	83%	77	355
HNORF03	HNORF03R	1335	blastx.2	(AL031228) dJ1033B10.2 (WD40 protein BING4 (similar to S. 1 sapiens]	emb CAA20229.1	89% 83% 90%	70 529 357	357 582 386
HNORF04	HNORF04R	1336	blastx.2	(AF196481) RING finger protein; FXY2 [Homo sapiens]	gb AAF07341.1 AF196481_1	91%	4	144
HNORF05	HNORF05R	1337	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	98% 98%	2 321	319 485
HNORF13	HNORF13R	1338	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	74%	31	615
HNORH03	HNORH03 R	1339	blastx.2	(AF110731) antioxidant enzyme	gb AAF03750.1 AF110731_1	95%	3	641

HNORH05	HNORH05 R	1340	blastx.2	B166 [Homo sapiens] ubiquitin conjugating- protein [Oryctolagus cuniculus]	gb AAA31492.1	100%	43	498
HNORJ08	HNORJ08R	1342	blastx.2	ATPase [Mus musculus]	gb AAA88243.1	90% 90% 38%	3 308 514	350 496 606
HOCMA02	HOCMA02 RA	1344	blastx.2	(AF016365) hexokinase I [Homo sapiens]	gb AAC15862.1	100% 65% 86% 50%	3 3 490 490	497 497 558 555
HOCMC08	HOCMC08 R	1347	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	89%	19	423
HOCMF27	HOCMF27 R	1349	blastx.2	sorbitol dehydrogenase [Homo sapiens]	gb AAA66064.1	100%	3	395
HOCMG37	HOCMG37 R	1352	blastx.2	chaperonin (HSP60) [Homo sapiens]	gb AAA36022.1	98% 36%	4 326	351 424
HOCMI62	HOCMI62R	1353	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	67%	64	384
HOCMJ47	HOCMJ47R	1354	blastx.2	ribosomal protein L18a [Homo sapiens]	gb AAC18781.1	98% 100%	4 413	378 439
HOCMK20	HOCMK20 R	1355	blastx.2	stathmin [Xenopus laevis]	emb CAA50562.1	77% 64%	80 363	379 500
HOCML06	HOCML06 R	1356	blastx.2	glyceraldehyde 3- phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	97%	123	707

HOCML66	HOCML66 R	1357	blastx.2	(AK000779) unnamed protein product [Homo sapiens]	dbj BAA91374.1	85% 76%	2 217	211 330
HOCMM5 2	HOCMM52 R	1358	blastx.2	glutathione transferase T1 [Homo sapiens]	emb CAA55935.1	98% 100%	133 24	594 137
HOCMS75	HOCMS75 R	1360	blastx.2	plakoglobin [Homo sapiens]	emb CAA92522.1	88%	6	500
HOCMS87	HOCMS87 R	1361	blastx.2	insulin-like growth factor binding protein 5 [Homo sapiens]	gb AAA53505.1	70%	151	615
HOCMY53	HOCMY53 R	1363	blastx.2	(AF028832) Hsp89- alpha-delta-N [Homo sapiens]	gb AAC25497.1	97% 100% 43%	97 309 45	312 416 113
HOCMY61	HOCMY61 R	1364	blastx.2	ribosomal protein S15a [Rattus norvegicus]	emb CAA54918.1	99%	80	466
HOCMY79	HOCMY79 R	1365	blastx.2	fau [Homo sapiens]	emb CAA46716.1	100% 100%	317 115	511 315
HOCOC38	HOCOC38 R	1366	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_H UMAN	100%	388	23
HOCOC94	HOCOC94 R	1368	blastx.2	protein phosphatase 2A (AA 1 - 309) [Oryctolagus cuniculus]	emb CAA68732.1	98% 84% 66%	3 490 566	485 567 628
HOCOF35	HOCOF35R	1369	blastx.2	(AF059486) putative actin-binding protein DOC6 [Mus musculus]	gb AAC31808.1	51% 81% 47% 29% 28% 31%	224 100 495 31 511 139	706 279 647 273 711 282

HOCOF50	HOCOF50R	1370	blastx.2	'FKBP52; 52 kD FK506 binding protein' [Homo sapiens]	gb AAA36111.1	72%	2	460
						46%	38	532
						55%	396	632
						43%	472	561
HOCOO62	HOCOO62 R	1371	blastx.2	Ro ribonucleoprotein autoantigen (Ro/SS-A) precursor [Homo sapiens]	gb AAA36582.1	77%	42	596
HOCOP52	HOCOP52R	1372	blastx.2	spliceosomal protein [Homo sapiens]	gb AAA60300.1	67%	2	631
						34%	68	301
						39%	388	621
						30%	441	626
						42%	522	620
HOCOQ13	HOCOQ13 R	1373	blastx.2	probable transmembrane protein TMC - human	pir S70029 S70029	94%	94	474
						75%	482	541
HOCOT70	HOCOT70 R	1375	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	97%	8	412
HOCPP69	HOCPP69R	1377	blastx.2	(AJ001701) deoxyhypusine synthase [Homo sapiens]	emb CAA04940.1	96%	1	351
						72%	347	412
						50%	396	455
HOCPP40	HOCPP40R	1380	blastx.2	3-oxoacyl-CoA thiolase propeptide (424 AA) [Homo sapiens]	emb CAA31412.1	100%	2	217
HOCPP44	HOCPP44R	1381	blastx.2	antiserotory factor-1 [Homo sapiens]	gb AAB54057.1	96%	3	275
						48%	286	408
HOCPI53	HOCPI53R	1383	blastx.2	collagen (VI) alpha-1 chain [Homo sapiens]	emb CAA67576.1	76%	41	322
						56%	225	365
						100%	4	39

HOCPM39	HOCPM39 R	1385	blastx.2	pinin [Bos taurus]	gb AAB48302.1	86%	23	136
HOCPP65	HOCPP65R	1386	blastx.2	histone H2A.F [Gallus gallus]	emb CAA32094.1	85% 53%	63 350	314 445
HOCPP80	HOCPP80R	1387	blastx.2	isoleucyl-tRNA synthetase [Homo sapiens]	gb AAA80153.1	88%	3	563
HOCPPQ59	HOCPPQ59R	1389	blastx.2	(AF006012) dishevelled 2 [Homo sapiens]	gb AAB65243.1	84% 100%	38 5	394 52
HOCPPQ66	HOCPPQ66R	1390	blastx.2	clathrin-associated protein 17 [Rattus norvegicus]	gb AAA40742.1	100%	2	427
HOCPPQ75	HOCPPQ75R	1391	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	86%	26	646
HOCPPR01	HOCPPR01R	1392	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb CAA27137.1	100% 91%	39 2	536 37
HOCPPR29	HOCPPR29R	1393	blastx.2	translation initiation factor [Homo sapiens]	emb CAA56074.1	96% 48% 40%	1 603 575	579 776 679
HOCPPR53	HOCPPR53R	1395	blastx.2	P311 HUM [Homo sapiens]	gb AAA74903.1	77%	86	268
HOCPPR77	HOCPPR77R	1397	blastx.2	similar to emb-5 protein of C.elegans. [Homo sapiens]	dbj BAA11479.1	92%	1	249
HOCPPS35	HOCPPS35R	1399	blastx.2	(AB017018) JKTBP2 [Homo sapiens]	dbj BAA75239.1	100%	3	203
HOCPPU03	HOCPPU03R	1400	blastx.2	dihydropyridine-sensitive L-type calcium channel alpha-2 subunit	gb AAA41088.1	65% 54%	7 441	456 512

HOCPU30	HOCPU30R	1401	blastx.2	[Rattus norvegicus] KDEL receptor [Homo sapiens]	emb CAA39371.1	66% 69% 61%	342 139 242	518 267 334
HOCPU68	HOCPU68R	1402	blastx.2	preprocathepsin B [Homo sapiens]	gb AAA52129.1	98%	3	269
HOCPU29	HOCPU29R	1403	blastx.2	thrombin inhibitor [Homo sapiens]	emb CAA80373.1	58%	243	593
HOCPU67	HOCPU67R	1404	blastx.2	serine/threonine-protein kinase PRP4m [Mus musculus]	gb AAB03269.1	88% 87%	58 345	327 518
HOCPU72	HOCPU72R	1405	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952.1	91% 84%	33 184	203 318
HOCPU56	HOCPU56R	1406	blastx.2	ARL3 [Homo sapiens]	gb AAA21654.1	100%	2	502
HOCPU81	HOCPU81R	1408	blastx.2	cysteine protease Mch2 isoform alpha [Homo sapiens]	gb AAC50168.1	91%	2	739
HOCPU01	HOCPU01R	1409	blastx.2	(AF052514) thymus specific serine peptidase [Homo sapiens]	gb AAC33563.1	73% 50% 87% 28%	129 113 566 483	440 571 589 587
HOCPU76	HOCPU76R	1411	blastx.2	(AF002705) beta prime COP [Rattus norvegicus]	gb AAB88018.1	99% 77%	2 423	421 524
HOCQA26	HOCQA26R	1413	blastx.2	interferon-inducible protein [Homo sapiens]	emb CAA59337.1	100% 71% 47%	205 410 360	378 571 473
HOCQA37	HOCQA37R	1414	blastx.2	lactoyl glutathione	dbj BAA02572.1	100%	136	276

HOCQA86	R				lyase [Homo sapiens]			82%	63	131
HOCQA86	HOCQA86	1415	blastx.2		proteoglycan core protein [Homo sapiens]		gb AAB00774.1	91%	84	392
HOCQB18	R				general transcription factor [Homo sapiens]		emb CAA37375.1	99%	3	473
HOCQB18	HOCQB18	1416	blastx.2		Na+-independent neutral and basic amino acid transporter [Homo sapiens]		dbj BAA11541.1	97%	4	555
HOCQB48	R				calcium binding protein [Homo sapiens]		dbj BAA23325.1	98%	126	419
HOCQC71	HOCQC71	1419	blastx.2		ribosomal protein L12 [Homo sapiens]		gb AAA36157.1	88%	152	637
HOCQD10	R				retinoid X receptor alpha [Rattus norvegicus]		gb AAA42093.1	80% 56%	3 424	392 567
HOCQD19	HOCQD19	1421	blastx.2		(AF095257) heterogeneous nuclear ribonucleoprotein C1/C2; hnRNP C1/C2 [Mus musculus]		gb AAD03717.1	86% 65% 59% 53%	1 299 474 474	294 475 614 599
HOCQD42	R				glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12), eutherian tissue - desert jerboa		pir JC5370 JC5370	91% 54% 100%	92 495 457	463 785 492
HOCQD45	HOCQD45	1424	blastx.2		ribosomal protein L7a large subunit [Homo sapiens]		gb AAA60282.1	74%	6	437
HOCQE35	R									

HOCQG94	HOCQG94 R	1426	blastx.2	actin [Brugia malayi]	emb CAB06627.1	62%	9	629
HOCQH81	HOCQH81 R	1427	blastx.2	(AF038952) cofactor A protein [Homo sapiens]	gb AAC39866.1	58%	254	652
HOCQI31	HOCQI31R	1428	blastx.2	prostacyclin- stimulating factor, PGI2-stimulating factor, PSF 1 sapiens]	gb AAB32370.1	91%	144	242
HOCQM24	HOCQM24 R	1430	blastx.2	hnRNPe core protein A1 [Homo sapiens]	emb CAA56072.1	100%	1	324
HODAF78	HODAF78 R	1431	blastx.2	(AC004638) amyloid precursor protein- binding protein 1 (APP-B1) [Homo sapiens]	gb AAC23784.1	55%	3	230
HODCZ52	HODCZ52 R	1434	blastx.2	tissue-specific secretory protein [synthetic construct]	emb CAA01433.1	66%	8	274
HODDI57	HODDI57R	1435	blastx.2	(AF113514) histone acetyltransferase MORF [Homo sapiens]	gb AAF00095.1	100%	26	133
							216	233
						96%	6	167
						68%	164	304
						36%	12	158
						33%	12	170
						35%	45	164
						30%	39	164
						25%	30	176
						30%	24	164
						27%	36	146
						26%	13	168
						37%	81	161
						46%	53	91

HODER57	HODER57 R	1440	blastx.2	Method: conceptual translation supplied by author [Homo sapiens]	gb AAA91179.1	34%	6	101
HODFC44	HODFC44R P00	1449	blastx.2	(AF216754) over- expressed breast tumor protein [Homo sapiens]	gb AAF25683.1 AF2 16754_1	98%	1	207
HODFJ14	HODFJ14R	1453	blastx.2	Ran_GTP binding protein 5 [Homo sapiens]	emb CAA70103.1	100%	2	181
HODFO16	HODFO16 R	1459	blastx.2	selenium donor protein [Homo sapiens]	gb AAA87567.1	100%	305	409
HODFO64	HODFO64 R	1460	blastx.2	zinc finger protein ZNF136 [Homo sapiens]	gb AAC50261.1	78%	16	153
						70%	1	153
						70%	1	153
						64%	1	153
						66%	1	153
						71%	16	153
						58%	1	153
						58%	1	153
						60%	1	156
						58%	1	153
						58%	1	153
						58%	7	153
						54%	10	153
						75%	150	233
						67%	156	239
						77%	174	239
						90%	174	233
						62%	153	239

HODFP51	HODFP51R	1461	blastx.2	pre-mRNA splicing factor [Homo sapiens]	gb AAA36648.1	45%	159	329
HODFQ19	HODFQ19R	1462	blastx.2	DNA topoisomerase III [Homo sapiens]	gb AAB03694.1	63%	153	242
HODFQ37	HODFQ37R	1463	blastx.2	pancreatic peptidylglycine alpha-amidating monooxygenase, 1 1	gb AAB32776.1	80%	174	233
HODGB69	HODGB69R	1475	blastx.2	protein 4 [Homo sapiens]	gb AAB58952.1	60%	153	236
HODGH30	HODGH30	1478	blastx.2	IDN4-GGTR14	sp Q9Y6Y5 Q9Y6Y5	54%	49	153
						51%	242	328
						70%	269	328
						55%	239	319
						60%	174	233
						43%	242	337
						81%	272	319
						54%	248	319
						32%	159	314
						34%	174	314
						48%	242	328
						52%	251	319
						41%	239	325
						41%	248	319
						37%	239	325
						77%	74	439
						44%	104	436
						89%	7	453
						92%	47	499
						93%	2	97
						25%	338	493
						89%	3	470
						90%	31	129

HODGH43	R	1479	blastx.2	PROTEIN. (AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	100%	48	116
HODGH65	R	1480	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	28%	217	363
HODGN53	R	1482	blastx.2	(AF186461) ring finger protein Fxy [Rattus norvegicus]	gb AAD56247.1 AF1 86461_1	96%	41	127
HODGQ52	R	1487	blastx.2	unnamed protein product [unidentified]	emb CAB42187.1	39%	95	475
HODGW91	R	1489	blastx.2	phosphofructokinase [Homo sapiens]	gb AAA79220.1	82%	1	84
HODGZ63	R	1493	blastx.2	putative [Caenorhabditis elegans]	gb AAA28195.1	25%	118	189
HODHD23	R	1495	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	100%	101	3
HODHE54	R	1498	blastx.2	lysyl oxidase-like protein [Homo sapiens]	gb AAA50162.1	93%	394	347
HODHE88	R	1499	blastx.2	(AK001737) unnamed protein product [Homo sapiens]	dbj BAA91871.1	49%	190	462
HODHG56	R	1500	blastx.2	(AF151888) CGI-130 protein [Homo sapiens]	gb AAD34125.1 AF1 51888_1	57%	470	532
HODHK86	R	1503	blastx.2	(AB005299) BAI 3 [Homo sapiens]	dbj BAA25363.1	92%	24	104
HODJL36	R	1505	blastx.2	(AL031177)	emb CAA20118.1	100%	24	323
						96%	323	418
						32%	94	348
						83%	29	196
						100%	121	231
						93%	2	289
						88%	413	568
						48%	207	590
						40%	254	436

	A				dJ889N15.2.2 (26S Proteasome subunit p28 (Ankyrin 1		32%	26	118
HODJZ09	HODJZ09R	1506	blastx.2		prepronociceptin [Homo sapiens]	emb CAA66039.1	98%	64	558
HODKB82	HODKB82 R	1508	blastx.2		serine/threonine kinase [Rattus norvegicus]	emb CAB06294.1	96% 28%	3 348	338 473
HODKD64	HODKD64 R	1514	blastx.2		(AL096881) hypothetical protein [Homo sapiens]	emb CAB51405.1	66%	503	333
HODKK26	HODKK26 R	1519	blastx.2		calmodulin [Homo sapiens]	dbj BAA08302.1	99% 45% 34% 100% 75%	59 41 38 463 417	424 286 391 507 464
HODKK40	HODKK40 R	1520	blastx.2		ribosomal protein S6 [Homo sapiens]	gb AAA60289.1	99%	1	624
HODKK73	HODKK73 R	1521	blastx.2		acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	96% 71% 28%	3 331 416	344 651 682
HODKN65	HODKN65 R	1526	blastx.2		homologue to elongation factor 1- gamma from A.salina [Homo sapiens]	emb CAA45089.1	76%	5	538
HOECR39	HOECR39R	1527	blastx.2		(AF216306) DCRC-1 [Mus musculus]	gb AAF32294.1 AF2 16306_1	58%	116	424
HOFAB77	HOFAB77R	1528	blastx.2		(AC007193) PPP5_HUMAN [Homo sapiens]	gb AAD22669.1 AC0 07193_3	80% 47%	16 450	489 512

HOFMF79	HOFMF79 RA	1530	blastx.2	cytochrome b [Canis familiaris]	gb AAD04775.1	80% 38%	4 305	339 430
HOFMJ88	HOFMJ88R	1531	blastx.2	receptor protein- tyrosine kinase [Homo sapiens]	gb AAA61139.1	76%	17	370
HOFMM8 4	HOFMM84 R	1533	blastx.2	hydroxymethylglutaryl- CoA reductase (NADPH) (EC 1.1.1.34) - mouse (fragments)	pir A43533 A43533	72% 85%	112 254	252 274
HOFMN93	HOFMN93 R	1534	blastx.2	(AF133669) ARL-6 interacting protein-1 [Mus musculus]	gb AAD33046.1 AF1 33669_1	61% 84%	36 214	299 327
HOFMP59	HOFMP59 R	1535	blastx.2	mitochondrial acetoacetyl-CoA thiolase [Homo sapiens]	dbj BAA01387.1	77% 83%	1 369	360 422
HOFMT68	HOFMT68 R	1536	blastx.2	RNase L inhibitor [Mus musculus]	gb AAC24730.1	52% 40%	137 264	547 581
HOFMT69	HOFMT69 R	1537	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTE IN M (HNRNP M).	sp P52272 ROM_HU MAN	80% 75% 39%	127 27 98	264 122 316
HOFMU92	HOFMU92 R	1538	blastx.2	(AP000694) chromatin assembly factor 1, subunit B (p60) [Homo sapiens]	dbj BAA89426.1	63%	124	432
HOFNF63	HOFNF63R	1540	blastx.2	phosphomannomutase [Homo sapiens]	gb AAC51368.1	70%	26	478
HOFNF76	HOFNF76R	1541	blastx.2	(AB002806) OS-9	dbj BAA24363.1	94%	17	370

HOFNG51	HOFNG51 R	1542	blastx.2	isoform 2 is missing nt 1642-1806; OS-9 1 (AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	79%	157	414
HOFNK44	HOFNK44 R	1543	blastx.2	osteonectin precursor [Bos taurus]	gb AAA30678.1	96%	19	186
HOFNY53	HOFNY53 R	1544	blastx.2	(AL034417) bK215D11.1 (RNA- binding protein regulatory subunit) [Homo sapiens]	emb CAB52550.1	91%	17	232
HOFOB65	HOFOB65R	1545	blastx.2	pyruvate dehydrogenase E1- alpha precursor [Homo sapiens]	gb AAA60055.1	74%	16	600
HOFOB79	HOFOB79R P00A	1546	blastx.2	KERATIN TYPE II CYTOSKELETAL 8 (FRAGMENT).	sp Q29386 Q29386	84%	80	397
HOFOE22	HOFOE22R	1547	blastx.2	activin receptor type I [Bos taurus]	gb AAB02696.1	98%	22	345
HOFOF47	HOFOF47R	1548	blastx.2	(AF129075) T- COMPLEX PROTEIN 1; THETA SUBUNIT (TCP-1-THETA) [Homo sapiens]	gb AAD17375.1	98% 62% 100%	18 245 244	242 460 270
HOFOF56	HOFOF56R	1549	blastx.2	protein disulfide isomerase [Mus musculus]	gb AAA39906.1	85% 57% 64% 36%	115 109 35 204	219 219 115 350

HOGCF48	HOGCF48R	1553	blastx.2	hepatitis C-associated microtubular aggregate protein p44 [Homo sapiens]	dbj BAA06043.1	40%	263	352
HOGCG83	HOGCG83 R	1554	blastx.2	keratin [Homo sapiens]	emb CAA31695.1	79% 81% 59%	50 309 21	310 482 113
HOGCI28	HOGCI28R	1556	blastx.2	complement component C3 [Homo sapiens]	gb AAA85332.1	93% 83%	3 173	179 337
HOGCI10	HOGCI10R	1557	blastx.2	(AF032667) rexo70 [Rattus norvegicus]	gb AAC01579.1	94%	103	471
HOGCI55	HOGCI55R	1559	blastx.2	Grb14 [Homo sapiens]	gb AAC15861.1	95%	13	459
HOGCT44	HOGCT44 R	1562	blastx.2	casein kinase I-alpha [Homo sapiens]	gb AAC41760.1	100%	31	183
HOGCV85	HOGCV85 R	1563	blastx.2	heparin binding protein [Homo sapiens]	gb AAA58636.1	76% 73%	3 398	521 535
HOGCV93	HOGCV93 R	1564	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	79%	43	504
HOGCY12	HOGCY12 R	1565	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	97% 41%	8 302	340 547
HOGCY58	HOGCY58 R	1566	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	94% 70% 30%	3 332 150	329 517 326
HOGCY74	HOGCY74 R	1567	blastx.2	extracellular matrix protein BM-40 (AA 1 -	emb CAA68724.1	100%	3	260

HOGDD29	HOGDD29 R	1568	blastx.2	303) [Homo sapiens] drebrin E2 [Homo sapiens]	gb AAA16256.1	88%	3	152
HOGDG03	HOGDG03 R	1570	blastx.2	l-caldesmon II [Homo sapiens]	dbj BAA14419.1	95% 87%	191 393	388 491
HOGDI44	HOGDI44R	1572	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1	100%	55	192
HOGDO25	HOGDO25 R	1574	blastx.2	XLAP associated factor-1 (ZAP-1) [Homo sapiens]	emb CAA68030.1	100%	2	163
HOGDO58	HOGDO58 R	1575	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	65%	86	373
HOGDP10	HOGDP10 R	1576	blastx.2	keratin [Homo sapiens]	emb CAA73943.1	89%	3	287
HOGDQ95	HOGDQ95 R	1578	blastx.2	FUSE binding protein 3 [Homo sapiens]	gb AAC50893.1	90% 32% 62% 48%	70 157 390 413	435 378 461 493
HOGDR70	HOGDR70 R	1579	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	83%	102	578
HOGDV93	HOGDV93 R	1580	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	98%	4	414
HOGEA27	HOGEA27	1581	blastx.2	cytokeratin 8 [Homo sapiens]	gb AAA35763.1	81%	2	160

	R			sapiens]				
HOGED85	HOGED85 R	1582	blastx.2	AP-3 complex beta3A subunit [Homo sapiens]	gb AAD03778.1	75%	3	482
						85%	305	445
						25%	6	173
HOG EK25	HOG EK25 R	1583	blastx.2	HLA-Aw34.2 antigen [Homo sapiens]	emb CAA43874.1	91%	38	316
HOGEN30	HOGEN30 R	1584	blastx.2	regulatory subunit RI alpha [Homo sapiens]	emb CAA01027.1	83%	140	322
HOG EP69	HOG EP69	1587	blastx.2	(AF056182) G-protein beta subunit [Emericella nidulans]	gb AAC33436.1	75%	83	205
						78%	219	260
HOGE T60	HOGE T60	1588	blastx.2	Plakoglobin [Homo sapiens]	gb AAA64895.1	67%	155	367
HOGE W58	HOGE W58 R	1590	blastx.2	focal adhesion kinase [Homo sapiens]	gb AAA35819.1	96%	4	414
HOG EZ03	HOG EZ03	1592	blastx.2	kinase [Homo sapiens]	emb CAA65450.1	87%	52	144
						83%	18	53
HOO HL68	HOO HL68 R	1601	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	92%	373	543
HOO HP84	HOO HP84 R	1602	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	82%	1	156
HOO HQ09	HOO HQ09 R	1603	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	63%	292	423
HOO HQ83	HOO HQ83 R	1604	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	100%	85	399
HOO HR81	HOO HR81 R	1605	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	73%	336	458
						78%	464	505
HOO HT13	HOO HT13	1608	blastx.2	steroid receptor TR2-11	gb AAA36761.1	95%	3	188

	R				[Homo sapiens]			95%	193	264
HOOIA46	HOOIA46R	1610	blastx.2		cpn10 protein [Bos taurus]	emb CAA49288.1		100%	3	239
HOOIB54	HOOIB54R	1613	blastx.2		ribosomal protein L23a [Homo sapiens]	gb AAB17510.1		75%	89	199
HOOIG71	HOOIG71R	1615	blastx.2		ribosomal protein L27 [Homo sapiens]	gb AAA19815.1		98%	2	250
HOOIN84	HOOIN84R	1624	blastx.2		IEF 7442 [Homo sapiens]	emb CAA51360.1		100%	4	189
HOOJT32	HOOJT32R	1629	blastx.2		ribosomal protein L23a [Homo sapiens]	gb AAA03341.1		76%	34	237
HOOJT65	HOOJT65R	1630	blastx.2		(AJ388520) Ribosomal protein [Canis familiaris]	emb CAB46822.1		88%	43	123
HOOJY44	HOOJY44R	1636	blastx.2		human homologue of rat phosphatidylethanolamine binding protein [Homo sapiens]	dbj BAA03684.1		100%	2	184
HOOJY80	HOOJY80R	1637	blastx.2		cytochrome b5 [Homo sapiens]	gb AAA35729.1		98%	61	462
HOOJY92	HOOJY92R	1638	blastx.2		mitochondrial matrix protein [Homo sapiens]	gb AAA60127.1		98% 91% 66% 62%	48 403 513 341	344 513 686 445
HOOKN43	HOOKN43R	1640	blastx.2		ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1		63%	124	399
HOPJF95	HOPJF95R	1643	blastx.2		nucleolar protein p40	gb AAB46731.1		91%	209	511

HOPJG60	HOPJG60R	1644	blastx.2	[Homo sapiens] (AF161386) HSPC268 [Homo sapiens]	gb AAF28946.1 AF1 61386.1	90%	130	219
HOPJG79	HOPJG79R	1646	blastx.2	prosome P27K protein [Homo sapiens]	emb CAA42052.1	97%	3	551
HOPJH65	HOPJH65R	1650	blastx.2	C gamma 3 [Homo sapiens]	emb CAA27268.1	57%	535	594
HOPKA06	HOPKA06 R	1656	blastx.2	homeotic protein HOX4E - human	pir A42008 A42008	46%	42	476
HOPKG16	HOPKG16 R	1659	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	44%	182	460
HOPKG47	HOPKG47 R	1660	blastx.2	(AL050318) dJ977B1.5 (myosin regulatory light chain 2, smooth muscle isoform) [Homo sapiens]	emb CAB75369.1	34%	172	543
HOPKG83	HOPKG83 R	1661	blastx.2	elongation factor-1- beta [Homo sapiens]	emb CAA43019.1	100%	2	49
HOPKK38	HOPKK38 R	1662	blastx.2	(AF077539) contains similarity to human melanoma antigen p15 (GB: U19796) [Caenorhabditis elegans]	gb AAC26291.1	95%	2	655
HOPKN14	HOPKN14 R	1663	blastx.2	aldolase A (EC 4.1.3.13) [Homo sapiens]	gb AAA51690.1	98%	1	432
						98%	46	519
						83%	525	560
						99%	34	594
						50%	584	709
						84%	615	653
						34%	60	380
						61%	379	417
						100%	2	460

HOPKN67	HOPKN67 R	1664	blastx.2	17,000 dalton myosin light chain [Bos taurus]	emb CAA38722.1	94%	31	483
HOPKO04	HOPKO04 RA	1665	blastx.2	(AL137423) hypothetical protein [Homo sapiens]	emb CAB70733.1	96%	1	81
HOPKO61	HOPKO61 R	1666	blastx.2	Six5 [Mus musculus]	dbj BAA11824.1	76%	4	405
HOPKP45	HOPKP45R	1667	blastx.2	PAX8=paired-box- protein [alternatively spliced] [human, 1	gb AAB34216.1	90%	285	527
						90%	154	285
						41%	494	601
						35%	385	435
HOPKQ20	HOPKQ20 R	1668	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	115	435
HOPKQ82	HOPKQ82 R	1669	blastx.2	(AF063243) ribosomal protein L30 [Bos taurus]	gb AAC16388.1	89%	28	498
HOPKR56	HOPKR56R	1670	blastx.2	unnamed protein product [Homo sapiens]	emb CAA02873.1	100%	6	173
HOPKU33	HOPKU33 R	1671	blastx.2	ribosomal protein L11 [Homo sapiens]	gb AAC15856.1	86%	5	514
HOVBK49	HOVBK49 R	1674	blastx.2	(AL080125) hypothetical protein [Homo sapiens]	emb CAB45723.1	85%	12	155
						80%	21	155
						75%	21	155
						70%	21	170
						79%	21	152
						60%	21	203
						73%	21	155
						66%	21	155
						63%	21	152

							61%	12	152
							63%	21	152
							40%	112	369
							40%	121	375
							38%	121	375
							38%	121	372
							36%	121	375
							46%	24	170
							34%	121	375
							34%	121	375
							32%	121	375
							38%	27	173
							42%	258	407
							34%	178	369
							36%	258	407
							37%	264	407
							34%	261	407
							39%	264	407
							34%	258	407
							32%	258	407
							31%	261	401
							30%	258	407
							36%	27	152
							52%	243	305
							28%	42	146
HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb AAD46422.1 AF105715_1	50%	246	434	
						55%	50	109	
						34%	112	249	
HOVBX41	HOVBX41R	1676	blastx.2	(AF025331) receptor for activated protein	gb AAB81618.1	86%	182	319	
						75%	340	399	

HOVCN03	HOVCN03 R	1678	blastx.2	kinase C [Oreochromis niloticus] (AJ005798) thyroid hormone receptor alpha 2 [Sus scrofa]	emb CAA06702.1	72%	309	341
HOVCU89	HOVCU89 R	1680	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	72%	36	578
HOVCV33	HOVCV33 R	1681	blastx.2	alpha-smooth muscle actin [Oryctolagus cuniculus]	emb CAA43139.1	92% 50%	1 287	321 454
HOVCW45	HOVCW45 R	1682	blastx.2	(AL137585) hypothetical protein [Homo sapiens]	emb CAB70827.1	97% 100% 80% 21% 23%	2 372 463 5 35	220 464 522 196 190
HOVCZ45	HOVCZ45 R	1684	blastx.2	retrovirus-related polypeptide protein pseudogene - human 1	pir A44282 A44282	65% 61%	2 444	361 506
HOVDB61	HOVDB61 R	1686	blastx.2	(AF067728) transactivating protein BRIDGE [Rattus norvegicus]	gb AAD32925.1 AF067728_1	89%	91	204
HOVDB65	HOVDB65 R	1688	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	112	282
HOVDG71	HOVDG71 R	1692	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	75% 81% 27%	116 3 103	226 98 210
HOVDH09	HOVDH09 R	1693	blastx.2	binding protein [Homo sapiens]	gb AAA36032.1	98% 81%	15 405	299 485

HOVDH75	HOVDH75 R	1694	blastx.2		ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1 (AF151866) CGI-108 protein [Homo sapiens] MTHSP75 [Homo sapiens]	gb AAB00807.1	81% 44%	316 299	381 433
HOVDV70	HOVDV70 R	1696	blastx.2			gb AAD34103.1 AF1 51866.1	69%	126	254
HOVEF34	HOVEF34R	1703	blastx.2			gb AAA67526.1	71% 90%	246 580	611 612
HOVEF81	HOVEF81R	1704	blastx.2		thyroid receptor interactor [Homo sapiens]	gb AAA73877.1	99%	49	393
HOVEL51	HOVEL51R	1707	blastx.2		cytochrome c-1 [Homo sapiens]	gb AAA52135.1	71% 77%	96 21	209 47
HOVEY58	HOVEY58 R	1712	blastx.2		ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1	gb AAB00807.1	93%	277	369
HOVJJ09	HOVJJ09R	1717	blastx.2		Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	100%	28	576
HOVJR56	HOVJR56R	1718	blastx.2		macrophage migration inhibitory factor [Homo sapiens]	gb AAA21814.1	100%	4	186
HOVJU75	HOVJU75R	1719	blastx.2		laminin-binding protein [Homo sapiens]	gb AAA36161.1	92%	64	648
HOVJW17	HOVJW17 R	1720	blastx.2		HLA-DR-beta-A [Homo sapiens]	emb CAA00596.1	92%	95	217
HOVJY68	HOVJY68R	1721	blastx.2		23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	94% 97%	217 15	570 221

HOVKE66	HOVKE66 R	1723	blastx.2	unnamed protein product [unidentified]	emb CAB69339.1	35%	149	241
HOVKG18	HOVKG18 R	1725	blastx.2	PBG-D (aa 1-344) [Homo sapiens]	emb CAA27801.1	98%	2	487
HPAMB11	HPAMB11 R	1726	blastx.2	transformation-related protein [Homo sapiens]	gb AAA36776.1	66%	353	601
HPAMB60	HPAMB60 R	1727	blastx.2	poly(A)-binding protein [Homo sapiens]	gb AAD08718.1	80% 41% 31% 38%	2 65 65 496	679 556 553 684
HPAMB93	HPAMB93 R	1729	blastx.2	heat-shock protein [Canis familiaris]	gb AAA87172.1	74% 95%	17 231	253 299
HPAMC04	HPAMC04 R	1730	blastx.2	ADP-ribosylation factor [Homo sapiens]	gb AAA57126.1	50%	140	331
HPAMC19	HPAMC19 R	1731	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	94%	89	676
HPAMC27	HPAMC27 R	1732	blastx.2	protein synthesis initiation factor 4A [Mus musculus]	emb CAA40268.1	88% 50%	64 746	786 805
HPAMC90	HPAMC90 R	1733	blastx.2	HBp15/L22 [Sus scrofa]	dbj BAA04547.1	97%	84	464
HPAMD56	HPAMD56 R	1734	blastx.2	isolog of yeast suil and rice gos2; putative [Homo sapiens]	gb AAA60602.1	99%	136	456
HPAME35	HPAME35 R	1735	blastx.2	amphiglycan [Homo sapiens]	emb CAA47406.1	80%	26	451

HPAMF16	HPAMF16 R	1737	blastx.2	actin [Dictyostelium discoideum]	gb AAA74186.1	45%	178	414
HPAMF38	HPAMF38 R	1738	blastx.2	(AF132970) CGI-36 protein [Homo sapiens]	gb AAD27745.1 AF1 32970.1	73%	452	520
HPAMG44	HPAMG44 R	1739	blastx.2	(AC004393) Similar to ribosomal protein L17 gb X62724 from 1 1	gb AAC18792.1	42%	619	732
HPAMG54	HPAMG54 R	1740	blastx.2	(AF039752) histone deacetylase-2; HD-2 [Gallus gallus]	gb AAB96924.1	76%	63	434
HPAMI11	HPAMI11R	1741	blastx.2	ribosomal protein S8 [Homo sapiens]	emb CAA47670.1	61%	331	612
HPAMJ71	HPAMJ71R	1742	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	59%	117	374
HPAMQ76	HPAMQ76 R	1744	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	94%	75	389
HPAMT47	HPAMT47 R	1745	blastx.2	(AF017153) putative RNA helicase and RNA dependent ATPase [Mus musculus]	gb AAC36129.1	95%	394	516
HPAMU33	HPAMU33 R	1746	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	77%	518	661
HPAMW4	HPAMW44 R	1748	blastx.2	(AC006127) BRG-1- HUMAN [AA 812- 1440]; nuclear protein GRB1; 1 1 SNF2L4	gb AAC97986.1	68%	627	701
						87%	11	592
						97%	62	397
						64%	412	609
						63%	405	494
						100%	2	190
						100%	381	509
						98%	2	493
						80%	472	600
						69%	4	354
						91%	221	358
						42%	46	159

HPAMY45	HPAMY45 R	1749	blastx.2	[Homo sapiens] (AC004908) similar to ribosomal protein L23a; similar to P29316 (PID:g132848) [Homo sapiens]	gb AAD05196.1	95% 92%	294 220	563 297
HPAMZ14	HPAMZ14 R	1750	blastx.2	triosephosphate isomerase [Rattus norvegicus]	gb AAA42278.1	93% 61%	20 508	508 600
HPAMZ15	HPAMZ15 R	1751	blastx.2	(AJ006776) IF2 protein [Homo sapiens]	emb CAB44357.1	95%	3	149
HPAMZ81	HPAMZ81 R	1752	blastx.2	SP-40,40 prepropeptide (AA -22 to 427) [Homo sapiens]	emb CAA32847.1	99% 62%	3 581	599 676
HPANA05	HPANA05 R	1753	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	99% 61% 88%	107 466 579	487 729 605
HPANA07	HPANA07 R	1754	blastx.2	nucleolin [Homo sapiens]	gb AAA59954.1	92% 34% 58%	7 19 626	678 678 697
HPANA28	HPANA28 R	1755	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	100%	2	376
HPANB32	HPANB32R	1757	blastx.2	(AF078820) high mobility group protein [Spalax ehrenbergi]	gb AAC27653.2	93%	5	235
HPANE49	HPANE49R	1759	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	8	412
HPANE52	HPANE52R	1760	blastx.2	23 kD highly basic	emb CAA40254.1	95%	13	624

HPANE87	HPANE87R	1761	blastx.2	protein [Homo sapiens] lactate dehydrogenase B [Homo sapiens]	emb CAA32033.1	82%	119	592
HPANJ67	HPANJ67R	1762	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	48%	34	174
HPCOJ59	HPCOJ59R	1766	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb CAB01127.1	100%	3	119
HPCOL81	HPCOL81R	1770	blastx.2	histone H2A.Z (AA 1-127) [Bos taurus]	emb CAA36554.1	32%	60	260
HPCOO90	HPCOO90R	1771	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	36	179
HPCOO95	HPCOO95R	1772	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_HUMAN	98%	60	335
HPCOP23	HPCOP23R	1773	blastx.2	ribosomal protein [Homo sapiens]	gb AAA16105.1	100%	337	2
HPCOR52	HPCOR52R	1778	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	88%	53	427
HPCOV35	HPCOV35R	1780	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	94%	136	306
HPCOV41	HPCOV41R	1781	blastx.2	Csa-19 [Homo sapiens]	gb AAA86463.1	94%	244	414
HPCPD26	HPCPD26R	1784	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb CAA27137.1	97%	54	356
							3	314

HPCPH52	HPCPH52R	1788	blastx.2	antizyme inhibitor [Homo sapiens]	dbj BAA23593.1	100%	3	101
HPCPU27	HPCPU27R	1790	blastx.2	enhancer factor I chain A-D - rat	pir JC2022 JC2022	61%	3	185
HPCQT88	HPCQT88R	1797	blastx.2	integrin associated protein [Homo sapiens]	emb CAA80977.1	93% 90%	1 422	327 451
HPCQX47	HPCQX47R	1800	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	97% 92%	222 2	326 40
HPCTD21	HPCTD21R	1802	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	336	506
HPCTD23	HPCTD23R	1803	blastx.2	putative progesterone binding protein [Homo sapiens]	emb CAA73248.1	98%	2	190
HPCTD25	HPCTD25R	1804	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	374	544
HPCTF29	HPCTF29R	1806	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	209	379
HPCTF83	HPCTF83R	1807	blastx.2	major histocompatibility complex class II antigen beta chain, 1 Partial Mutant, 57 aa [Homo sapiens]	gb AAB28826.1	92%	58	177
HPCTI86	HPCTI86R	1809	blastx.2	H+-ATP synthase subunit b [Homo sapiens]	emb CAA42782.1	99%	1	306

HPCTO69	HPCTO69R	1811	blastx.2	(AF042857) lung cancer antigen NY-LU-12 variant A [Homo sapiens]	gb AAC05826.1	99%	77	538
HPCTV40	HPCTV40R	1815	blastx.2	ribosomal protein L35a (aa 1-110) [Rattus norvegicus]	emb CAA27193.1	99%	48	377
HPCTV53	HPCTV53R	1816	blastx.2	8.2 kDa differentiation factor [Homo sapiens]	emb CAA56100.1	85% 91% 100%	26 138 250	148 248 318
HPCTV92	HPCTV92R	1817	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	85%	20	205
HPCTX22	HPCTX22R	1818	blastx.2	Aop1_Human, MER5(Aop1_Mouse)-like protein [Homo sapiens]	dbj BAA08389.1	100%	1	153
HPDOF81	HPDOF81R	1822	blastx.2	2,4-dienoyl-CoA reductase [Homo sapiens]	gb AAA67551.1	95% 64%	3 229	254 342
HPDOP05	HPDOP05R	1823	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	100%	2	412
HPDOP20	HPDOP20R	1824	blastx.2	MHC HLA-DR-beta chain precursor old gene name 'HLA-DRA1' [Homo sapiens]	gb AAA59831.1	84%	45	542
HPDOS87	HPDOS87R	1825	blastx.2	40S ribosomal protein S14 [Podocoryne carnea]	emb CAA50506.1	95% 54% 91%	84 14 209	209 85 244

HPDOU54	HPDOU54 R	1826	blastx.2	N-acetyl-beta-glucosaminidase prepro-polypeptide [Homo sapiens]	gb AAA51828.1	54%	1	66
HPDOZ43	HPDOZ43R	1827	blastx.2	tripeptidyl peptidase II [Homo sapiens]	gb AAA63263.1	94%	64	489
HPDPC90	HPDPC90R A	1829	blastx.2	(AF073298) small EDRK-rich factor 2 [Homo sapiens]	gb AAC63516.1	98%	318	485
HPDPH14	HPDPH14R	1830	blastx.2	Q1Z 7F5 [Homo sapiens]	gb AAA36021.1	92%	121	291
HPDPQ16	HPDPQ16R	1835	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	87%	87	110
HPDPR73	HPDPR73R	1836	blastx.2	(AJ010046) guanine nucleotide-exchange factor [Homo sapiens]	emb CAA08974.1	52%	349	519
HPDPS51	HPDPS51R	1837	blastx.2	(AF053356) ORF3, splicevariant [Homo sapiens]	gb AAC78797.1	94%	131	460
HPDPS90	HPDPS90R	1838	blastx.2	(AB021643) gonadotropin inducible transcription repressor-3 [Homo sapiens]	dbj BAA86989.1	76%	2	214
						42%	128	337
						36%	125	319
						36%	125	319
						32%	155	319
						37%	292	399
						48%	325	402
						57%	325	387
						60%	325	384
						42%	325	402

HPDPX12	HPDPX12R P00B	1841	blastx.2		ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	32%	390	518
HPDPY83	HPDPY83R P00B	1842	blastx.2		prothymosin alpha [Homo sapiens]	gb AAA60213.1	96%	199	393
HPDQC34	HPDQC34R	1843	blastx.2		(AF038129) polyubiquitin [Ovis aries]	gb AAB92373.1	95%	7	642
							94%	7	642
							97%	7	453
							94%	226	642
							64%	639	689
							61%	639	692
							61%	639	692
HPDQH11	HPDQH11 R	1845	blastx.2		ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	68	334
HPDQH34	HPDQH34 R	1846	blastx.2		(AF115850) PAR protein [Homo sapiens]	gb AAD09822.1	73%	3	371
							94%	345	494
							85%	226	267
							41%	178	240
HPDQI50	HPDQI50R	1847	blastx.2		succinate dehydrogenase flavoprotein subunit [Homo sapiens]	gb AAA20683.1	99%	18	539
HPDQI55	HPDQI55R	1848	blastx.2		(AL022577) dJ353H6.2.2 (SW1/SNF related, matrix associated, 1 (SNF2L1))	emb CAA18608.1	96%	1	441

HPDQR20	HPDQR20R	1851	blastx.2	(PUTATIVE isoform 2) [Homo sapiens] RNA polymerase II 140 kDa subunit. [Homo sapiens]	emb CAA45124.1	91% 60%	10 555	639 761
HPDQR88	HPDQR88R	1852	blastx.2	similar to putative ATP-dependent RNA helicase K03H1.2 of C.elegans(S41025) [Homo sapiens]	dbj BAA13213.1	90% 80%	2 555	550 584
HPDQS25	HPDQS25R	1854	blastx.2	Cctg [Xenopus laevis]	emb CAA59350.1	85% 72%	4 258	264 410
HPDQT32	HPDQT32R	1858	blastx.2	neuroleukin [Homo sapiens]	gb AAA36368.1	100%	3	410
HPDQU81	HPDQU81 R	1859	blastx.2	(AF068227) putative transmembrane protein [Homo sapiens]	gb AAC27614.1	98%	3	269
HPDQV07	HPDQV07 R	1860	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	71%	35	574
HPDQW39	HPDQW39 R	1862	blastx.2	(AF133093) ARD-1 N- acetyltransferase homologue [Mus musculus]	gb AAF22155.1 AF1 33093_10	100% 70%	113 466	466 705
HPDQX13	HPDQX13 R	1863	blastx.2	Histone H3 [Asparagus officinalis]	emb CAA57811.1	72%	119	337
HPDQY23	HPDQY23 R	1864	blastx.2	DNA binding protein [Homo sapiens]	emb CAB10847.1	97%	3	443
HPDQZ65	HPDQZ65R	1869	blastx.2	(AF199488) beta-actin [Coturnix coturnix]	gb AAF13710.1 AF1 99488_1	100% 63%	3 446	443 694

HPDRA44	HPDRA44R	1870	blastx.2	japonica] interferon regulatory factor 7 [Mus musculus]	gb AAB18626.1	72% 45%	4 362	240 559
HPDRA50	HPDRA50R	1871	blastx.2	actin [Diadromus pulchellus]	emb CAA62806.1	75%	16	189
HPDRF65	HPDRF65R	1872	blastx.2	ribosomal protein L8 [Homo sapiens]	emb CAA82248.1	58% 95% 50%	281 21 505	748 236 753
HPDRG73	HPDRG73R	1874	blastx.2	Ran [Canis familiaris]	emb CAA77980.1	94% 84%	50 451	460 528
HPDRM93	HPDRM93 R	1876	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	86%	12	302
HPDRO04	HPDRO04R	1877	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	100%	17	307
HPDRP36	HPDRP36R	1879	blastx.2	GLI-Krupple related protein [Homo sapiens]	gb AAA59467.1	100% 37% 78%	30 36 304	317 260 372
HPDRP41	HPDRP41R	1880	blastx.2	UHX1 protein [Homo sapiens]	gb AAC50450.1	88%	2	739
HPDRQ66	HPDRQ66R	1881	blastx.2	ribosomal protein [Homo sapiens]	emb CAA81488.1	91%	81	290
HPDRQ84	HPDRQ84R	1882	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	79%	4	555
HPDRR71	HPDRR71R	1883	blastx.2	(AF081484) alpha- tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	98% 100%	16 381	390 422

HPDRS46	HPDRS46R	1885	blastx.2	(AF195094) gamma actin-like protein [Mus musculus]	gb AAF08293.1 AF195094_1	98% 69%	15 301	299 369
HPDRS87	HPDRS87R	1886	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	100%	14	508
HPDRT37	HPDRT37R	1888	blastx.2	leukocyte antigen F [Homo sapiens]	emb CAA34947.1	60%	3	560
HPDRU03	HPDRU03R	1890	blastx.2	(AL021366) cICK0721Q.4.1 (PHD finger protein 2) (isoform 2) [Homo sapiens]	emb CAA16159.1	98% 90%	59 247	244 276
HPDRU37	HPDRU37R	1891	blastx.2	HLA-A9HH antigen [Homo sapiens]	dbj BAA11936.1	96%	1	231
HPDRV73	HPDRV73R	1893	blastx.2	vimentin [Homo sapiens]	gb AAA61279.1	90%	4	573
HPDRW09	HPDRW09R	1895	blastx.2	MHC HLA-DR2(non-Dw2/non-Dw12)a glycoprotein beta-chain [Homo sapiens]	gb AAA36278.1	95%	1	222
HPDRY37	HPDRY37R	1897	blastx.2	type XVI collagen alpha 1 chain, alpha 1 (XVI) [human, I	gb AAB25797.1	64% 88% 50% 50% 48% 48% 52% 50% 44%	2 310 310 307 310 310 307 310 286	598 516 522 516 522 522 489 486 522

							498
						310	492
						280	504
						295	498
						310	522
						310	516
						295	492
						310	507
						310	522
						310	522
						280	489
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						295	489
						310	450
						310	522
						2	307
						310	477
						310	498
						280	492
						304	510
						14	304
						310	507
						289	498
						310	522
						280	456
						310	498
						295	492
						316	486
						2	88
						2	88

							43%	310	453
							41%	307	498
							64%	5	88
							58%	2	88
							41%	307	486
							62%	2	88
							43%	319	489
							61%	212	304
							40%	310	486
							54%	2	91
							44%	197	304
							42%	370	492
							30%	212	520
							31%	212	520
							58%	2	88
							58%	2	88
							48%	206	310
							58%	2	88
							55%	5	91
							43%	373	492
							45%	212	316
							55%	2	88
							56%	2	91
							38%	310	486
							32%	310	492
							50%	209	304
							38%	188	319
							57%	5	88
							54%	2	88
							57%	5	88

							57%	5	88
							58%	5	88
							55%	2	88
							55%	5	91
							51%	5	88
							55%	209	295
							48%	188	286
							53%	2	88
							51%	2	88
							54%	212	304
							48%	212	304
							55%	2	88
							55%	2	88
							55%	5	91
							50%	2	91
							46%	209	304
							41%	188	304
							45%	194	319
							48%	5	91
							42%	185	310
							51%	2	82
							45%	2	91
							47%	2	100
							41%	194	304
							51%	5	91
							46%	209	304
							40%	200	319
							36%	179	310
							55%	2	88
							47%	403	522

							46%	209	304
							44%	197	304
							53%	5	88
							50%	5	88
							51%	2	88
							41%	200	310
							53%	5	88
							44%	2	91
							53%	5	91
							45%	212	304
							48%	209	307
							54%	5	91
							48%	212	304
							45%	209	307
							53%	5	88
							45%	212	310
							42%	212	319
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							43%	209	304
							45%	212	310
							47%	206	313
							46%	206	304
							40%	188	304
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							48%	2	88
							46%	2	91
							50%	5	88
							42%	185	304

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								41%	212	304
								41%	212	304
								40%	209	304
								48%	2	88
								44%	5	91
								50%	5	88
								44%	2	88
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								51%	5	88
								48%	2	91
								48%	2	88
								45%	209	307
								43%	209	304
								45%	206	304
								41%	209	310
								41%	200	307
								54%	5	76
								52%	14	79
								48%	2	88
								50%	5	88
								50%	5	88
								41%	212	304
								42%	203	304
								38%	212	319
								50%	5	88
								45%	5	97
								45%	209	304
								38%	188	304
								36%	188	310
								52%	23	91

								48%	2	88
								48%	2	88
								48%	212	304
								41%	212	304
								38%	188	304
								52%	14	88
								44%	2	88
								51%	5	88
								41%	188	304
								40%	209	304
								40%	212	307
								40%	212	307
								48%	236	310
								41%	212	304
								40%	209	304
								37%	185	304
								35%	185	304
								53%	23	88
								46%	5	88
								54%	23	88
								50%	203	283
								44%	2	88
								41%	212	304
								43%	209	304
								61%	32	88
								51%	23	88
								50%	5	79
								41%	5	91
								40%	197	304
								50%	2	67

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					520

HPDRZ11	HPDRZ11R	1898	blastx.2	(AF012086) Ran. binding protein 2 [Homo sapiens]	gb AAC05596.1	40% 63% 50% 44% 42% 37% 40% 31% 32% 40% 36% 42% 60% 53% 53% 44% 55% 50% 56% 48% 53% 52% 48% 42% 44%	488 488 488 491 476 432 282 321 584 503 521 521 81 81 81 81 78 78 75 81 78 75 75 81 534	553 520 535 544 532 509 1 49 273 279 303 303 22 4 4 1 1 1 1 1 1 1 1 4 481
						98% 48% 60% 50% 46%	67 34 347 486 637	351 339 640 746 717

HPDRZ29	HPDRZ29R	1899	blastx.2	Lsc homologue [Homo sapiens]	emb CAA70356.1	50%	496	537
HPDVA01	HPDVA01R	1900	blastx.2	(AF153685) truncated calcium binding protein [Homo sapiens]	gb AAD51611.1 AF153685_1	81%	720	484
HPDVA06	HPDVA06R	1901	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	87%	243	359
HPDVB70	HPDVB70R	1903	blastx.2	Ig mu chain C region, membrane-bound splice form - human	pir S16510 MHUM	93%	92	820
HPDVC28	HPDVC28R	1904	blastx.2	retrovirus-related polypeptide - human 1	pir A44282 A44282	84%	62	436
HPDVG06	HPDVG06R	1906	blastx.2	immunoglobulin M heavy chain [Homo sapiens]	emb CAA47708.1	99%	3	326
HPDVI25	HPDVI25R	1908	blastx.2	APEX nuclease [Homo sapiens]	dbj BAA02633.1	83%	94	417
HPDVI95	HPDVI95R	1909	blastx.2	(AF067370) cytoplasmic dynein light chain; Tctex-1 [Bos taurus]	gb AAC39268.1	100%	3	338
HPDVK79	HPDVK79R	1911	blastx.2	TRANSCRIPTION FACTOR BTF3 (RNA POLYMERASE B TRANSCRIPTION 1	sp Q64152 BTF3_MOUSE	77%	61	570
HPDVK93	HPDVK93R	1912	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	89%	116	634

HPDVL45	HPDVL45R	1914	blastx.2	cell cycle checkpoint control protein [Homo sapiens]	gb AAB39928.1	100%	4	303
HPDVL52	HPDVL52R	1915	blastx.2	hNop56 [Homo sapiens]	emb CAA72789.1	98% 56% 60% 29% 27% 31% 29% 28%	96 269 418 409 418 326 418 460	293 625 660 561 546 439 570 630
HPDVM61	HPDVM61R	1916	blastx.2	(AF123880) gag polypeptide [multiple sclerosis associated retrovirus element]	gb AAD48374.1	44%	5	268
HPDVM63	HPDVM63R	1917	blastx.2	(AF019036) human IgG1 neutralizing heavy chain with leader 1	gb AAF21613.1	97%	1	573
HPDVM86	HPDVM86R	1918	blastx.2	gamma-interferon-inducible protein precursor [Homo sapiens]	gb AAA36105.1	91% 100%	35 4	406 51
HPDVO67	HPDVO67R	1919	blastx.2	(AC005954) ZO-3 [Homo sapiens]	gb AAC72274.1	96% 84% 67% 41%	1 188 396 334	189 394 521 549
HPDVT37	HPDVT37R	1923	blastx.2	JUN-D protein [Mus musculus]	gb AAA39345.1	54% 78%	16 240	231 281
HPDVU28	HPDVU28	1924	blastx.2	protein phosphatase 2C	emb CAA74245.1	96%	163	693

HPDVU72	R	1925	blastx.2	gamma [Homo sapiens] similar to the Drosophila splicing regulator, 1 [Homo sapiens]	gb AAA19604.1	100%	3	497
HPDVU88	HPDVU72 R					37%	51	434
HPDVU88	HPDVU88 R	1926	blastx.2	glutathione peroxidase [Homo sapiens]	gb AAA67540.1	91%	51	599
HPDVV78	HPDVV78 R	1927	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	72%	595	648
HPDWA88	HPDWA88 R	1929	blastx.2	calcium binding protein [Homo sapiens]	dbj BAA23325.1	66%	129	638
HPDWC30	HPDWC30 R	1931	blastx.2	GlcNac-1-P transferase [Homo sapiens]	emb CAB04787.1	85%	2	124
HPDWD67	HPDWD67 R	1934	blastx.2	open reading frame (458 AA) [Homo sapiens]	emb CAA36054.1	94%	168	473
HPDWD69	HPDWD69 R	1935	blastx.2	ribosomal protein S26 [Homo sapiens]	gb AAC26987.1	79%	319	14
HPDWD81	HPDWD81 R	1936	blastx.2	HLA-DRB4*0103 [Homo sapiens]	emb CAB06483.1	100%	9	353
HPDWE11	HPDWE11 R	1937	blastx.2	polyadenylate binding protein [Homo sapiens]	gb AAB97309.1	99%	4	330
HPDWF93	HPDWF93 R	1939	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	63%	333	593
HPDWL56	HPDWL56	1941	blastx.2	complement factor B	gb AAA16820.1	75%	479	526
						44%	460	513
						82%	2	121
						91%	16	483
						96%	83	379

	R			[Homo sapiens]			89%	660	770
HPDWN46	HPDWN46 R	1943	blastx.2	p67 myc protein [Homo sapiens]	dbj BAA01374.2		38%	83	145
HPDWN65	HPDWN65 R	1944	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AA60287.1		100%	468	468
HPDWN69	HPDWN69 R	1945	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1		73%	77	379
							88%	3	95
HPDWO50	HPDWO50 R	1948	blastx.2	5S ribosomal protein [Mus musculus]	emb CAA73041.1		98%	54	377
							66%	379	528
HPDWO61	HPDWO61 R	1949	blastx.2	(AL049783) hypothetical protein [Homo sapiens]	emb CAB42441.1		45%	416	535
							97%	44	343
HPDWO82	HPDWO82 R	1950	blastx.2	cpn10 protein [Bos taurus]	emb CAA49288.1		100%	37	342
HPDWS61	HPDWS61 R	1951	blastx.2	unknown product specific to adipose tissue [Homo sapiens]	dbj BAA08226.1		97%	94	321
HPDWT55	HPDWT55 R	1952	blastx.2	alanine aminotransferase [Homo sapiens]	dbj BAA01186.1		100%	3	503
HPDWT56	HPDWT56 R	1953	blastx.2	(AF033095) testis enhanced gene transcript protein [Homo 1]	gb AAB87479.1		89%	66	650
							100%	620	694
							83%	697	750
HPDWU47	HPDWU47 R	1954	blastx.2	90-kDa heat shock protein [Sus scrofa]	gb AAC48718.1		93%	58	678
							62%	662	757

HPDWU55	HPDWU55 R	1955	blastx.2	protein disulfide isomerase-related protein (PDIR) [Homo sapiens]	dbj BAA08451.1	94% 37% 27%	1 1 1	726 624 636
HPDWU60	HPDWU60 R	1956	blastx.2	(AF151063) HSPC229 [Homo sapiens]	gb AAF36149.1 AF1 51063 1	93% 80%	176 598	565 657
HPDWU63	HPDWU63 R	1957	blastx.2	cytokeratin 15 (AA 1 - 456) [Homo sapiens]	emb CAA30535.1	100%	2	370
HSCPJ17	HSCPJ17R	1962	blastx.2	(AL031670) dJ681N20.2 (similar to FTLL1(ferritin, light 1	emb CAB43181.1	97% 88%	260 405	403 485
HSDIA22	HSDIA22R	1963	blastx.2	ATPase 6 [Homo sapiens]	emb CAA24031.1	77% 87% 47%	123 2 238	308 121 306
HSDIX73	HSDIX73R	1965	blastx.2	NADH dehydrogenase subunit 4L [Homo sapiens]	dbj BAA07296.1	86% 100%	2 178	175 258
HSDZJ21	HSDZJ21R	1968	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland 1	pir C59153 C59153	82%	1	105
HSIFF84	HSIFF84R	1969	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	78%	143	6
HSKJR50	HSKJR50R	1970	blastx.2	translation initiation factor 3 47 kDa subunit [Homo sapiens]	gb AAD03467.1	86% 98% 50% 49% 45%	2 2 169 11 342	337 289 498 247 566
HSLHT27	HSLHT27R	1971	blastx.2	URF A6L (NADH dehydrogenase subunit)	emb CAA24030.1	80% 66%	2 2	139 121

HSODB16	HSODB16R	1972	blastx.2	[Homo sapiens] cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	1	651
HSPSB24	HSPSB24R	1973	blastx.2	(AF076191) gamma- actin [Trichosurus vulpecula]	gb AAC26520.1	90%	61	732
HSPSB70	HSPSB70R	1974	blastx.2	BBC1 [Homo sapiens]	emb CAA45963.1	100%	3	539
HSPSB74	HSPSB74R	1975	blastx.2	WT1 [Xenopus laevis]	dbj BAA11522.1	98%	1	162
HSPSB80	HSPSB80R	1976	blastx.2	unc-18homologue [Homo sapiens]	dbj BAA19482.1	92%	2	691
HSPSC30	HSPSC30R	1977	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	91% 83% 100%	124 4 309	318 180 374
HSPSE86	HSPSE86R	1978	blastx.2	(AF161507) HSPC158 [Homo sapiens]	gb AAF29122.1 AF1 61507_1	91% 62% 54%	3 302 477	338 667 626
HSPSG03	HSPSG03R	1979	blastx.2	protein phosphatase 2A 65 kDa regulatory subunit, alpha isoform [Sus scrofa]	emb CAA84414.1	100%	3	191
HSPSG13	HSPSG13R	1980	blastx.2	protein p68 (AA 1-614) [Homo sapiens]	emb CAA33751.1	95% 76%	221 738	739 788
HSPSG42	HSPSG42R	1981	blastx.2	(AF056490) cAMP- specific phosphodiesterase 8A [Homo sapiens]	gb AAC39763.1	98%	3	554
HSPSG50	HSPSG50R	1982	blastx.2	(AB036829) skeletal muscle and kidney	dbj BAA92340.1	80%	132	578

HSPSG89	HSPSG89R	1983	blastx.2	enriched inositol phosphatase [Homo sapiens]	gb AAC31959.1	97%	106 629	645 700
HSPSH39	HSPSH39R	1984	blastx.2	(AF081484) alpha- tubulin isoform 1 [Homo sapiens]	dbj BAA36501.1	87%	68	772
HSPSH41	HSPSH41R	1985	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	emb CAA32847.1	94% 95% 69%	129 367 480	404 498 683
HSPSH49	HSPSH49R	1986	blastx.2	SP-40,40 prepropeptide (AA -22 to 427) [Homo sapiens]	gb AAA60289.1	83%	96	821
HSPSI65	HSPSI65R	1987	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AAA85654.1	89%	3	755
HSPSJ71	HSPSJ71R	1988	blastx.2	ribosomal protein L5 [Homo sapiens]	gb AAA35531.1	91% 54%	2 660	346 749
HSPSJ72	HSPSJ72R	1989	blastx.2	medium tumor antigen- associated 61-kD protein [Homo sapiens]	dbj BAA05679.1	92% 98% 50%	97 410 561	432 592 632
HSPSQ22	HSPSQ22R	1990	blastx.2	BST-2 [Homo sapiens]	gb AAA91461.1	100%	7	339
HSPSQ57	HSPSQ57R	1991	blastx.2	UbcH5C [Homo sapiens]	gb AAD02337.1	100%	16	327
HSPSY67	HSPSY67R	1992	blastx.2	(AF044671) MM46 [Homo sapiens]	sp P27361 MK03_H UMAN	99% 51% 47%	2 385 402	385 537 545

HSPSZ69	HSPSZ69R	1993	blastx.2	(EC 2.7.1.-) 1 1 1 unnamed protein product [unidentified]	emb CAB69291.1	98%	2	283
HSPTA57	HSPTA57R	1994	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	90%	285	317
HSPTN57	HSPTN57R	1995	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	64%	337	735
						100%	318	338
HSSDM17	HSSDM17 R	1996	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	55%	2	157
						37%	178	360
HTLCU84	HTLCU84R	2001	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	53%	356	400
						94%	55	210
HTSHG06	HTSHG06R	2002	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	71%	185	541
						87%	107	364
						94%	1	105
HULAP70	HULAP70R	2005	blastx.2	cytochrome c oxidase subunit VIII precursor [Homo sapiens]	gb AAA99313.1	100%	251	349
HUSGA11	HUSGA11 R	2006	blastx.2	carbonate dehydratase [Homo sapiens]	emb CAA59331.1	63%	220	471
HUVFA39	HUVFA39 R	2009	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	100%	183	218
HVCAA31	HVCAA31 R	2010	blastx.2	myosin regulatory light chain [Homo sapiens]	gb AAA67367.1	34%	460	92
						34%	436	8
HVCAA37	HVCAA37 R	2011	blastx.2	complement factor B [Homo sapiens]	gb AAA16820.1	98%	103	618
						96%	322	687
						88%	3	137
HVCAA94	HVCAA94	2013	blastx.2	F-1-ATPase beta-	gb AAA30395.1	95%	1	435

	R				subunit precursor [Bos taurus]			50%	440	643
HVCAB02	HVCAB02 R	2014	blastx.2		calcyphosine [Homo sapiens]	emb CAA66609.1		100%	489	512
HVCAB03	HVCAB03 R	2015	blastx.2		40S ribosomal protein S12 [Sus scrofa]	emb CAA55946.1		92%	128	703
HVCAB18	HVCAB18 R	2016	blastx.2		human homolog of DnaJ protein [Homo sapiens]	dbj BAA02656.1		88%	486	644
								89%	386	664
									133	288
HVCAB52	HVCAB52 R	2018	blastx.2		'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1		98%	60	794
									67	612
HVCAB57	HVCAB57 R	2019	blastx.2		glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1		98%	1	333
								70%	330	524
HVCAB88	HVCAB88 R	2020	blastx.2		(AL022721) dJ109F14.2 (60S Ribosomal Protein RPL10A) [Homo sapiens]	emb CAB38627.1		99%	89	739
HVCAC42	HVCAC42 R	2021	blastx.2		diphtheria toxin receptor associated protein [Chlorocebus aethiops]	dbj BAA01569.1		67%	184	414
								86%	119	184
								38%	305	430
HVCAD52	HVCAD52 R	2022	blastx.2		translin [Homo sapiens]	emb CAA55341.1		72%	19	291
HVCAE01	HVCAE01 R	2023	blastx.2		laminin-binding protein [Homo sapiens]	gb AAA36161.1		99%	64	606
								47%	633	758

HVCAE15	HVCAE15 R	2024	blastx.2	lymphocyte antigen [Homo sapiens]	gb AA59705.1	91%	3	695
HVCAE22	HVCAE22 R	2025	blastx.2	proteasome subunit C2 [Homo sapiens]	dbj BAA00656.1	97%	86	487
HVCAE56	HVCAE56 R	2026	blastx.2	complement component C3 [Homo sapiens]	gb AA85332.1	90%	489	554
HVCAE56	HVCAE56 R	2027	blastx.2	complement C3 [Homo sapiens]	gb AA85332.1	74%	75	707
HVCAH03	HVCAH03 R	2029	blastx.2	ribosomal protein L7 [Homo sapiens]	emb CAA37139.1	99%	3	551
HVCAH03	HVCAH03 R	2029	blastx.2	(AF030249) putative dienoyl-CoA isomerase [Homo sapiens]	gb AAB86485.1	96%	63	599
HVCAH17	HVCAH17 R	2030	blastx.2	precursor [Homo sapiens]	emb CAA68392.1	62%	577	657
HVCAH56	HVCAH56 R	2031	blastx.2	ribosomal protein L3 [Homo sapiens]	emb CAA51839.1	90%	1	294
HVCAI08	HVCAI08R	2032	blastx.2	(AF008304) protein inhibitor of neuronal nitric oxide synthase [Oryctolagus cuniculus]	gb AAC32530.1	92%	299	340
HVCAI79	HVCAI79R	2034	blastx.2	sortilin [Homo sapiens]	emb CAA66904.1	97%	3	407
HVCAJ27	HVCAJ27R	2035	blastx.2	(AK000449) unnamed protein product [Homo sapiens]	dbj BAA91172.1	100%	130	375
HVCAJ81	HVCAJ81R	2036	blastx.2	(AB036060) ubiquitin [Oncorhynchus mykiss]	dbj BAA88568.1	80%	2	559
HVCAJ95	HVCAJ95R	2037	blastx.2	(AF073298) small EDRK-rich factor 2	gb AAC63516.1	99%	88	537
						100%	97	405
						81%	404	469
						100%	34	210

HVCAK02	HVCAK02 R	2038	blastx.2	[Homo sapiens] hnRNP-E2 [Homo sapiens]	emb CAA55015.1	89% 90%	90 3	467 92
HVCAL06	HVCAL06 R	2039	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	96% 30% 39%	3 302 432	308 559 554
HVCAO17	HVCAO17 R	2040	blastx.2	Nm23 protein [Homo sapiens]	emb CAA35621.1	70%	4	531
HVCAO63	HVCAO63 R	2041	blastx.2	similar to tubulin alpha-2 chain [Caenorhabditis elegans]	emb CAA85463.1	76% 72% 47%	82 269 342	276 322 410
HVCAP89	HVCAP89R	2042	blastx.2	CTP synthetase homolog [Mus musculus]	gb AAB17729.1	83% 67% 29% 80%	69 509 520 681	512 643 669 710
HVCAQ53	HVCAQ53 R	2043	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	43	480
HVCAR87	HVCAR87 R	2045	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	74%	54	536
HVCAS08	HVCAS08R	2046	blastx.2	triose-phosphate isomerase [Pan troglodytes]	gb AAA35438.1	74% 55%	77 609	796 803
HVCAS52	HVCAS52R	2047	blastx.2	proteasome subunit C8 [Homo sapiens]	dbj BAA00659.1	94%	1	579
HVCAU64	HVCAU64	2049	blastx.2	23 kD highly basic	emb CAA40254.1	97%	57	401

HVCBD18	R	2050	blastx.2	protein [Homo sapiens] (AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	59%	396	196
HVCBE76	HVCBE76R	2051	blastx.2	ribosomal protein L27 [Homo sapiens]	gb AAA19815.1	80%	24	431
HVCBF38	HVCBF38R	2053	blastx.2	neurofibromatosis type 1 protein [Homo sapiens]	gb AAA74897.1	85%	6	236
						41%	274	636
						71%	483	524
						42%	517	594
						88%	452	478
HVCBF89	HVCBF89R	2054	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	78%	41	325
						70%	666	725
						50%	590	679
HVCBG01	HVCBG01 R	2055	blastx.2	(AF184170) elongation factor 1-alpha [Sparus aurata]	gb AAD56406.1 AF1 84170_1	96%	43	237
						37%	300	572
						47%	353	535
						40%	553	627
HVCBQ31	HVCBQ31 R	2056	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	90%	65	343
						53%	327	647
						45%	328	663
						43%	482	559
HVCCA08	HVCCA08 R	2057	blastx.2	neurofibromatosis type- 1-GTPase activating- protein type III [Mus musculus]	dbj BAA06395.1	60%	23	256
HVCCK34	HVCCK34 R	2058	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	99%	94	696
HVCCV93	HVCCV93 R	2060	blastx.2	AICAR formyltransferase/IMP	gb AAA97405.1	92%	206	454
						58%	454	648

HVCDD19	HVCDD19 R	2062	blastx.2		cyclohydrolase bifunctional enzyme [Homo sapiens]		59%	564	674
HVCDF50	HVCDF50R	2063	blastx.2		1-8U [Homo sapiens]	emb CAA40626.1	98%	61	459
HVCDDH77	HVCDDH77 R	2064	blastx.2		similar to mouse Int-6 [Homo sapiens]	gb AAB58251.1	95% 63%	3 343	341 618
HVVAB37	HVVAB37 R	2066	blastx.2		3-methyl-adenine DNA glycosylase [Homo sapiens]	emb CAA93540.1	98%	2	640
HVVAC18	HVVAC18 R	2067	blastx.2		Ig mu chain C region - dog	pir A93131 MHDG	39% 40% 39% 65% 38%	215 78 61 2 294	700 401 267 61 347
HVVAE73	HVVAE73 R	2069	blastx.2		(AF035421) glyceraldehyde 3- phosphate dehydrogenase [Ovis 1]	gb AAB88484.1	47%	59	379
HVVAH91	HVVAH91 R	2071	blastx.2		(AJ001612) L-3- phosphoserine- phosphatase homologue [Homo sapiens]	emb CAA04865.1	91%	111	326
HVVAI03	HVVAI03R	2072	blastx.2		(AL050109) hypothetical protein [Homo sapiens]	emb CAB43277.1	87%	54	245
					ribosomal protein L31 (AA 1-125) [Homo sapiens]	emb CAA34066.1	98% 88% 61%	32 303 7	304 383 45

HVVAJ23	HVVAJ23R	2073	blastx.2	immunoglobulin lambda-chain [Homo sapiens]	gb AAA02915.1	80%	9	563
HVVAK46	HVVAK46 R	2077	blastx.2	v-fos transformation effector protein [Homo sapiens]	gb AAA58487.1	96% 61%	3 707	746 769
HVVAK85	HVVAK85 R	2079	blastx.2	unnamed protein product [unidentified]	emb CAA03726.1	94%	14	370
HVVAL81	HVVAL81 R	2080	blastx.2	phospholipase A2 [synthetic construct]	emb CAA01645.1	81%	157	471
HVVAS27	HVVAS27 RP00B	2082	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	9	413
HVVAW2 6	HVVAW26 R	2083	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	74% 56% 78%	7 272 447	444 601 503
HVVBD91	HVVBD91 RP00B	2084	blastx.2	gamma non-muscle actin [Oryctolagus cuniculus]	emb CAA43140.1	99%	2	436
HVVBFO9	HVVBFO9R	2085	blastx.2	(AK001810) unnamed protein product [Homo sapiens]	dbj BAA91922.1	89%	3	206
HVVBH88	HVVBH88 R	2087	blastx.2	Na,K-ATPase alpha- subunit [Homo sapiens]	dbj BAA00061.1	74%	1	519
HVVB116	HVVB116R	2088	blastx.2	IgG [Homo sapiens]	gb AAA02914.1	69% 92%	32 577	562 618
HVVB108	HVVB108R	2089	blastx.2	(AB014876) ribosomal protein L13 [Cricetus griseus]	dbj BAA34291.1	81% 96% 52%	156 40 419	479 234 601
HVVB155	HVVB155R	2090	blastx.2	ribosomal protein S17	gb AAA60284.1	99%	9	413

HVVBK13	P00B	2091	blastx.2	[Homo sapiens] (AB022653) anti- Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	88% 62% 43%	73 633 617	618 713 733
HVVBO65	HVVBO65 R	2092	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA75033.1	68%	12	623
HVVBO88	HVVBO88 R	2093	blastx.2	immunoglobulin heavy chain VH-III region [Homo sapiens]	gb AAA98800.1	82%	77	481
HVVR70	HVVR70 RP00B	2094	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40958.1	68% 67%	20 318	334 491
HVVB60	HVVB60 R	2096	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_H UMAN	100%	448	98
HVVCB04	HVVCB04 R	2098	blastx.2	heavy chain antibody 3D6 [synthetic construct]	emb CAA01549.1	69% 70% 30%	65 478 487	484 609 603
HVVCB08	HVVCB08 R	2099	blastx.2	(AB022653) anti- Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	76%	73	735
HVVCC06	HVVCC06 R	2100	blastx.2	(AB005894) ecalactin [Homo sapiens]	dbj BAA31542.1	72% 85%	206 144	325 203
HVVC81	HVVC81 R	2102	blastx.2	glutathione S- transferase-pi [Homo sapiens]	gb AAA56823.1	96%	80	640

HVVCD90	HVVCD90 R	2104	blastx.2	type II mesothelial keratin K7 [Homo sapiens]	gb AAA36146.1	82%	98	748
HVVCE65	HVVCE65 R	2106	blastx.2	80K-H protein [Homo sapiens]	gb AAA52493.1	94%	2	214
HVVCF38	HVVCF38R	2107	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA37883.1	84%	114	467
HVVCG29	HVVCG29 R	2108	blastx.2	FB19 protein [Homo sapiens]	emb CAA73697.1	95%	1	375
						65%	1	384
						66%	1	375
						65%	19	375
						69%	19	375
						63%	19	375
						52%	19	378
						63%	1	285
						47%	19	387
						44%	19	378
						44%	58	399
						70%	654	725
HVVCG31	HVVCG31 R	2109	blastx.2	(AF061034) FIP2 [Homo sapiens]	gb AAC16046.1	91%	14	349
						98%	310	573
						60%	576	773
						25%	361	540
HVVCG46	HVVCG46 R	2110	blastx.2	phosphoglycerate kinase (EC 2.7.2.3) [Homo sapiens]	gb AAA60078.1	100%	3	350
HVVCG93	HVVCG93 R	2111	blastx.2	(AB021288) beta 2- microglobulin [Homo sapiens]	dbj BAA35182.1	100%	49	405

HVVCH28	HVVCH28 R	2112	blastx.2	(AF104913) eukaryotic protein synthesis initiation factor [Homo sapiens]	gb AAC82471.1	100%	3	350
HVVC128	HVVC128R	2113	blastx.2	extracellular matrix protein BM-40 (AA 1 - 303) [Homo sapiens]	emb CAA68724.1	100%	3	119
HVVC150	HVVC150R	2114	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	89% 79% 75%	44 382 644	403 663 739
HVVC185	HVVC185R	2115	blastx.2	Ig gamma chain C region - chimpanzee	pir PT0207 PT0207	96% 80%	3 599	599 688
HVVCJ51	HVVCJ51R	2116	blastx.2	lysophosphatidic acid acyltransferase-beta [Homo sapiens]	gb AAB58776.1	94% 87%	1 273	261 371
HVVCCK78	HVVCCK78 R	2118	blastx.2	Ig light chain V11 region [Homo sapiens]	gb AAA20217.1	85% 77% 84%	27 242 298	248 307 336
HVVCL52	HVVCL52 R	2119	blastx.2	NuMA protein [Homo sapiens]	emb CAA77670.1	99%	1	339
HVVCL73	HVVCL73 R	2120	blastx.2	ribosomal protein small subunit [Homo sapiens]	gb AAA35682.1	100% 91%	14 674	583 775
HVVCM67	HVVCM67 R	2121	blastx.2	Immunoglobulin lambda chain [Homo sapiens]	gb AAC37563.1	95% 78%	3 283	284 378
HVVCM84	HVVCM84 R	2122	blastx.2	apoferritin H chain [Homo sapiens]	emb CAA25086.1	68%	3	407
HVVNCN20	HVVNCN20 R	2123	blastx.2	Hin-2 [Homo sapiens]	gb AAA64187.1	89% 71%	68 4	286 87

HVVCN54	HVVCN54 R	2125	blastx.2	[Human Ig rearranged gamma chain mRNA, V-J-C region and complete cds.], gene product [Homo sapiens]	gb AAA73002.1	70% 78%	17 17	388 337
HVVC013	HVVC013 R	2127	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	79% 48%	8 549	550 695
HVVC016	HVVC016 R	2128	blastx.2	alpha SNAP [Homo sapiens]	gb AAC80170.1	96%	251	346
HVVC087	HVVC087 R	2129	blastx.2	(AF191829) heat-shock protein [Littorina plena]	gb AAF12788.1 AF1 91829_1	90% 51% 93%	30 359 457	389 469 501
HVVC41	HVVC41R	2130	blastx.2	(AB019120) seven transmembrane receptor [Rattus norvegicus]	dbj BAA82518.1	52% 54%	2 573	436 644
HVVC88	HVVC88R	2131	blastx.2	(AC002528) alpha2(I) collagen [Homo sapiens]	gb AAB69977.1	88% 50% 49% 48% 47% 48% 49% 51% 48% 47% 47% 50%	15 3 3 3 6 3 3 3 3 15 15 15	470 302 299 299 299 290 272 272 299 299 299 272

						47%	3	272
						46%	3	302
						53%	3	278
						48%	15	272
						46%	3	272
						45%	18	302
						51%	3	272
						45%	18	314
						47%	3	272
						46%	3	305
						49%	3	299
						45%	3	299
						44%	3	299
						45%	3	302
						45%	3	302
						48%	3	272
						45%	3	299
						51%	27	272
						44%	3	302
						49%	3	272
						45%	18	272
						47%	3	272
						47%	15	278
						48%	3	272
						45%	3	299
						45%	18	299
						43%	18	299
						47%	3	272
						42%	3	302
						45%	3	299

HVVCQ49	HVVCQ49 R	2133	blastx.2	(AF076191) gamma-actin [Trichosurus vulpecula]			48%	18	272
HVVCQ93	HVVCQ93 R	2135	blastx.2	90kDa heat shock protein [Homo sapiens]			45%	15	299
HVVC28	HVVC28R	2136	blastx.2	Rab5c protein [Canis familiaris]			42%	6	272
HVVC32	HVVC32R	2137	blastx.2	(AF015283) selenoprotein W [Homo sapiens]			44%	3	272
HVVCU50	HVVCU50 R	2141	blastx.2	ubiquitin-like protein [Homo sapiens]			43%	18	299
							48%	3	272
							42%	3	302
							43%	3	299
							44%	15	272
							43%	3	272
							43%	3	299
							43%	3	272
							46%	18	272
							43%	3	299
							43%	3	299
							41%	3	302
							38%	319	480
							43%	583	696
							76%	54	629
							89%	7	699
							91%	183	293
							80%	403	507
							100%	95	217
							100%	65	307

HVVCV41	HVVCV41 R	2142	blastx.2	(AB010491) natriuretic peptide A type receptor [Homo sapiens]	dbj BAA31199.1	100%	2	292
						100%	309	482
						66%	283	309
						40%	399	479
HVVCW75	HVVCW75 R	2144	blastx.2	(AK000419) unnamed protein product [Homo sapiens]	dbj BAA91151.1	100%	3	410
HVVCX46	HVVCX46 R	2146	blastx.2	p48 [Homo sapiens]	gb AAB38382.1	54%	71	712
						50%	418	747
						100%	354	431
						51%	654	734
HVVCY29	HVVCY29 R	2147	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	97%	2	715
HVVCY55	HVVCY55 R	2148	blastx.2	Hrs [Homo sapiens]	dbj BAA23366.1	99%	2	511
HVVCY60	HVVCY60 R	2149	blastx.2	elongation factor-1 alpha-chain protein (EF-1-alpha) [Xenopus laevis]	gb AAA49700.1	86%	1	555
						38%	498	716
						42%	557	763
HVVCY62	HVVCY62 R	2150	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	90%	3	620
HVVCY75	HVVCY75 R	2151	blastx.2	ribosomal protein L34 [Rattus rattus]	emb CAA32574.1	96%	394	477
HVVCY77	HVVCY77 R	2152	blastx.2	phospholipid transfer protein [Homo sapiens]	gb AAA36443.1	98%	2	598
HVVCZ18	HVVCZ18 R	2153	blastx.2	UDP-GalNAc:polypeptide N-acetyltransferase [Homo sapiens]	emb CAA63371.1	95%	423	542

HVVDH44	HVVDH44 R	2156	blastx.2	acetylglucosaminyltransferase (GalNAc-T3) [Homo sapiens] (AF013622) immunoglobulin heavy chain variable region [Homo sapiens]	gb AAC39746.1	85%	20	562
HVVDM23	HVVDM23 R	2157	blastx.2	(AJ010446) immunoglobulin kappa light chain [Homo sapiens]	emb CAA09185.1	80% 74% 62%	81 308 541	338 502 588
HVVDM31	HVVDM31 R	2158	blastx.2	adenylyl cyclase-associated protein [Homo sapiens]	gb AAA35507.1	98%	3	446
HVVDM45	HVVDM45 R	2159	blastx.2	(AF016365) hexokinase I [Homo sapiens]	gb AAC15863.1	96%	66	155
HVVDM29	HVVDM29 R	2162	blastx.2	ADP, ATP carrier protein T2 - human	pir S03894 S03894	95% 25% 56%	8 29 615	643 559 683
HVVDM77	HVVDM77 R	2163	blastx.2	Lon protease-like protein [Homo sapiens]	emb CAA53625.1	97%	4	594
HVVDP70	HVVDP70 R	2164	blastx.2	SM22 alpha [Homo sapiens]	dbj BAA21839.1	92% 39% 48%	61 294 287	309 593 415
HVVDP46	HVVDP46 R	2165	blastx.2	destrin [Sus scrofa]	dbj BAA14105.1	64% 56%	106 285	513 485
HVVDP49	HVVDP49 R	2166	blastx.2	calpain (EC 3.4.22.17) large chain 1 - rabbit (fragments)	pir A24815 A24815	97%	2	103

HVVD S12	HVVD S12 R	2167	blastx.2	Ig kappa chain NIG2 precursor - human	pir JE0244 JE0244	89%	91	726
HVVD S21	HVVD S21 R	2168	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	95% 68%	74 690	727 746
HVVD S35	HVVD S35 R	2169	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	88% 67%	80 636	736 803
HVVD T29	HVVD T29 R	2171	blastx.2	(AF065388) tetraspan NET-1 [Homo sapiens]	gb AAC17119.1	72%	121	612
HVVD T44	HVVD T44 R	2172	blastx.2	ch-TOG [Homo sapiens]	emb CAA63212.1	98%	2	460
HVVD W02	HVVD W02 R	2174	blastx.2	retinoic acid induced gene E [Homo sapiens]	emb CAA92321.1	79%	3	200
HVVD W61	HVVD W61 R	2175	blastx.2	chimeric monoklonal TSH antibody, gamma chain [synthetic construct]	emb CAA00676.1	86%	2	229
HVVD X90	HVVD X90 R	2177	blastx.2	(AF149822) mitotic checkpoint protein BUB3 [Mus musculus]	gb AAD38038.1 AF1 49822_1	84%	23	511
HWLME48	HWLME48 R	2181	blastx.2	calpain II [Sus scrofa]	gb AAB17381.1	95%	3	140
HWMI B35	HWMI B35 R	2183	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	49	219

HWWEF9 0	HWWEF90 R	2185	blastx.2	(AL035461) dJ967N21.3 (novel protein similar to predicted 1	emb CAB55274.1	95%	61	300
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[0048] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[0049] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0×10^{-7} , and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a

percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[0050] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[0051] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[0052] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1.

[0053] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[0054] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X. niques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[0055] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[0056] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[0057] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0058] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[0059] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This

method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the ovarian antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant ovarian antigen.

[0060] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or

2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[0061] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[0062] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Altting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Altting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[0063] Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR[®]2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[0064] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[0065] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of ovarian associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[0066] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[0067] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[0068] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for

example, antibodies of the invention raised against the ovarian polypeptides of the present invention in methods which are well known in the art.

[0069] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[0070] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. In further embodiments, preferably excluded from the invention are the specific polynucleotide

sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer Range of a Range of b	Accession #'s
HOVCD34	11	396327	1 - 314 15 - 328	BF032064, T40388, BG223493, AI917132, BF526832, AI554435, H86931, AC007262, AC026722, Z98742, AP000115, AL121969, AL159996, AP001717, AL353771, AL354674, AL353802, AL031846, AP000308, AL139343, Z97629, AC010135, AL049832, AP000048, AL020995, AC011292, AC007955, AL356103, AC004938, AC002492, AC068811, AC023511, AL008721, AC011749, AL024473, AC006354, AC002351, Z93015, AC007172, AC005230, AL139342, AF165926, AL121902, AC007025, AC005181, AL158841, AC011742, AL163201, AC009024, AC008269, AL139277, AC007964, AC007938, AF205588, AL139185, AC006478, AC007784, AL034395, AL136000, AC007344, AC010731, AL122013, AC002288, AL359751, AL121721, AC0066590, AL139232, AC024164, AL031662, AC007358, AC009481, AL050335, AL033533, AC010789, AC009498, AC007850, AL020998, AC018684, AL034451, AL135783, AC008066, AC005030, AL049562, AL138706, Z95125, AC007461, AC011475, AL117337, AL117694, AL121915, AL049776, AL078596, AL035089, AL096764, AL049563, AC002553, AL035067, AC007458, AC018642, AC005550, Z99496, Z98036, Z99291, AC003119, AC007446, AC020751, AC068314, AC003035, X87344, AC066598, AC073175, AL139351, AC012156, AC006314, AC010582, AC018832, AC006142, AL139353, and AL163247.
HEBGD58	12	498281	1 - 340 15 - 354	BG253988, BF508504, AA187211, H44280, BG251021, AA431830, AW962811, AA355921, H06638, BG259131, AV729233, BG119160, BG027014, T48526, AW298232, and AL138828.
HETCD42	13	533532	1 - 2333 15 - 2347	AL079360, AU137870, AU139146, BG260515, AV714769, AU137391, BF984453, AV713475, AV757390, AU138193, BF981793, AV713896, BE886752, BE889586, AW863749, BE882133, BF984505, BF983192, BG033275, BE537808, AU138496, BF978549, BF791293, AV758458, BF978970, BE897839, BE891773, BG028552, AV756779, BF348380, BE544852, BG180994, AU138423, BE783926, BE790149, AV647651, BG180514, BE886542, BF669771, AW950287, BG030964, AU133929, BF540824, BF672669, AI308837, BE882889, BF244654, BF666694, AV647698, BG169993, BF790368, AV723145, AV732863, AA122236, AV647695, AV715522, AV685920, BF028308, AV647569, BF105115, BE892120, BF695056, BF669431, BF436129, BE543091, AW363937, BF667030, AL740603, BE568179, AV715544, AI698125, AI678683, BE748490, AW299845, BG009598, AI766040, BF036918, AA911996, BF790701, AI740699, BF129905, BF695828, BE748787, BF694681, BE049332, BE501459, BF791119, BF242503, BF240540, AI566017, BE739216, AI862778, BF103607, BF383055, BF089920, BF383113, BF574696, AW439230, BF028165, AI992130, BF029869, BF214255, AA083269, BF692328,

HTXKC18	14	535854	1 - 864	15 - 878	<p>BF028909, BF028950, N31326, BF670821, BF211706, BF701480, BF670811, BE866031, AI917193, AI570519, BE568353, AI095016, BF130290, BF245935, AA731991, BE789179, BE018220, BE789659, AV706901, BE873916, AI784504, AU157511, AU157154, AA807683, BF214737, BE866674, AA521441, BF697291, AI097040, AA159802, AU155086, BF576547, BF001380, AA577000, BF576765, AI421580, BE042461, AA315644, BF241476, BG165631, AI954071, AI949499, BF001429, BG178240, AI088027, BF693411, BE866506, BF243338, BF238642, BF213391, BF693271, AI590159, BE564554, AI870962, AA291279, BF696346, AI683299, AA452797, BF691651, BF697614, BF574483, AI335173, BF574392, AI922454, BE878946, AA613953, BE301705, W46431, AI983758, BE138832, BF381737, BE568565, BF126639, N21374, BF793733, AV757543, BE175751, BF211165, BF693918, BF383115, BF575927, AA083228, AA626504, BE568752, BF993159, BF248184, AI274752, AV647219, AW514125, AI580851, AI302371, AV758280, W52465, AW339075, AW627843, AW589504, AA729798, AA165015, AI301712, BF923406, BG025081, AI095888, BF132421, BE865839, HI2391, AW193393, BG113656, AI750428, N35068, AW628469, BF381687, AA018858, AI537545, AI539228, AV647526, BE739676, BF244248, N43807, AI355889, BF219513, AW305167, AA248634, BF670216, BF208900, D58212, BF576833, BE567828, AV692522, AW316752, AV763220, AA249298, BF221484, BE247748, BF336472, BE567795, AV704009, BF336476, AC002543, U03851, U03269, UI6741, M80589, and M25534.</p> <p>AA547979, AI085242, BG029528, BF725761, BE162539, AI801505, AI358712, BF804385, AI369580, AL037714, AL079734, BE062478, AA483256, BF811714, BF681619, BF804359, BG180976, BE178231, AV760941, BE252421, AW021116, AI439372, AA594157, AV758870, AW819125, AL043351, BE062476, AA643770, AI583252, AI923052, BE178064, AI440117, AV760391, AL038606, AV741663, AA528503, AW855643, BE301584, AA528496, AW069227, AW969941, AW833865, AI380617, AA579419, AV760014, BF868994, AI612142, BF842771, AV760389, AI251576, AW023111, AL037683, AW827182, AL040038, AW237905, BE677029, AI491765, AL042373, AI499298, AI421755, AW020150, AI174876, AI821467, AA469327, AI612070, BF244530, AW855528, BE063437, AW779609, AI583466, AA812058, BF821009, AV763276, AV726091, BF821897, BG152386, AI611533, AI565084, AA832016, AA828047, AA857812, AI275982, AI610941, BE150580, AI299882, AV760915, AI301373, AA838091, AI457389, T74524, AL121655, AC005520, AC006312, AL356379, AC008569, AL024498, AC007546, AC020904, AC018758, AL158040, AC005911, AC024082, AL109804, AC007637, AC005940, AC004089, AP001435, AC011449, AL096840, AC005102, AC004867, AC021016, AL121586, AL034548, AC004967, AC005736, AC005480, AC008403, AC003684, AC009516, AC020916, U91321, AC005755, AI136137, AP000704, AL050318, AC005531, AF168787, AC002350, AC005387, AC005952, AC010271, AC007731, AC005412, AC020552, AC002312, AC008753, AL034379, AL121653, AC005197, AL157838, AC008551, AL138787, AC005971, AC004217, AC007597, AF045555, AC018720, AL355385, AC006597, AI138787, AC005971, AC004217, AC007597, AF045555, AC018720, AL355385, AC006597,</p>
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HLDRK20	15	553765	1 - 1300	15 - 1314	AL531625, BE249834, BE249869, AU133584, AU133954, BE2933561, AV692312, AW957051, BE293519, AU135103, AA399208, AW176043, AV690099, AI904273, T60502, BF374345, AV655442, AW804571, AW804603, T70509, AV688378, H47199, H93928, AV694565, AV694238, T68223, T68956, T68126, T68045, AA337893, T69698, AW804991, AW804996, T68924, AW372297, T72305, AV696946, AV696947, AI301941, AA344625, T71155, T72771, T56196, T73042, BF992875, AI133687, BE392020, AV693194, BF848482, AW104835, BF369544, T74806, AI363265, T68644, T60607, AA779168, T68483, T67851, AV647855, T73703, AI266591, AR034619, S67310, L15702, X72875, AX014918, AF019413, X00284, K01566, M15082, and M59240.
H2MBD33	16	558474	1 - 425	15 - 439	AW957931, AW957932, AA308306, AI633677, BE538201, BE044997, AW856247, BF061419, BE787771, AW874580, AA503529, AW117709, AJ613324, AI561159, AI732205, AA133693, AA747898, AU160258, Z19706, AA405171, AU156212, BG231867, AI498698, AA579013, U88573, A75315, AC016816, X87344, AC000117, AC004506, AC004522, AC004899,

HSYBX61	17	558708	1 - 1094	15 - 1108	AC005075, AC005919, AL122002, AC019172, AC004977, AC008444, AC005771, AL160237, AC004066, AC025614, U73642, AC006024, AL359833, AJ009614, AC010470, AL021939, AL138773, AC009037, AC016941, AC013246, AL445189, AC010458, AC027329, AL121950, Z83313, AL049648, AL109921, and AC007368. AI950214, AI074445, BG114649, BF666951, AV705261, AI050761, BF215604, BF700368, AW665220, BF247160, BE58106, BF668544, AW901579, AA863199, BG105211, AW901581, AA933061, BF691307, BF081566, AU153641, W48793, BE701906, AW901558, BF363888, W49619, AA757163, AI127140, BF363884, BE812771, AW901562, AA406401, AU127328, AU120201, AW901572, BE701904, AV694302, AW901560, AW951188, BE938964, W24640, BE701884, AI207705, AW360819, AL041311, AW360785, T29223, AI765920, BF382797, AA747483, AW136630, N83358, R38385, AW900970, BF970590, BF885816, AW899304, N87392, AA693316, N89144, AI675151, AW900934, BF529885, BE767210, AI754509, BE464612, BG167754, M34064, X57548, X53615, S42303, AB017695, AB008811, M31131, AF097593, X07277, S45013, X54315, S45011, AF177682, Z27439, Z27440, and Z27441.
HELHC03	18 -	562745	1 - 1161	15 - 1175	BE262771, AI024014, H91016, H90904, AV695478, BE138594, AL036909, AI560085, AI537397, AI630283, AA744018, AV756491, AL038842, T74524, AW023302, AI888468, AI076236, AA181917, AA468022, AI678867, BE147833, AW965008, AC005048, AC005726, AC006050, AL139182, AL121893, AC005829, AL078591, U91323, Z84469, AL162615, AF196969, AC006337, AC011470, AL031777, AC005102, AL135901, Z93241, AC007934, AC005670, AC007263, AL353804, AC004895, AC004963, AL121891, AL050349, AC004906, AC000025, AC004983, AL117382, AC006011, AL034422, AP000563, AL354896, AL139099, AC008760, AB003151, AL157789, AC003070, AL049872, AC005412, AL162430, AC005859, AP000558, AP000065, AC011500, AL050332, AC011479, AC018738, AC005527, AL158141, AC009516, AP001711, AC005529, AL356354, AC007686, AC000379, AL109797, AL135744, AC002115, AC002546, AC005080, AC011455, AL008635, AL133417, Z95114, AC007785, AC004634, AP000501, AC007216, AC018751, AF033356, AC002312, Z97985, AC002550, AC005236, AL049795, AC010553, AL049780, AC005052, AL138807, AC005482, AF111168, AC005081, AC011442, AL445248, AC007055, AC036103, AC002425, AP000313, AL109743, AF088219, AC002091, AC010201, AC006552, AL133228, AC005840, AL137060, AC009399, AL050318, AC002301, AC007130, AL118520, AC006483, AP000133, AC010422, AL031575, AC011475, AC011523, AC007201, AC004916, AF109907, AF168787, AC006071, AL365212, AC004694, AC027319, AL133548, AC011495, Z94801, Z98884, AC002404, AC002395, AC008085, AP000194, AC004858, AL136298, AC018719, AL138893, AC011527, AC002369, AC011592, AL356750, AL389886, AC005409, AC008770, Z94056, AP000350, AL133153, AL132653, AC015651, AL031846, AL162424, AC083874, AC005755, AC004031, AC016831, AP001714, AC005015, AC007465, AP000555, AC008537, U91326, AC020947, AC020908,

HOFMP70	19	585385	1 - 333	15 - 347	AC005625, AP000553, AF001549, AP000290, AL139353, AL158198, AL109758, AC003684, AC007388, AL022067, AP000211, AC010326, AC005104, AC005666, Z95116, AF002223, AC005324, AC003957, AL079335, AL355392, AL360227, AL122001, AC004150, AC008474, AC011895, AC007066, AC004675, AC006211, AL031681, AL109614, AP000117, AC005088, AC005622, AC011462, AC006141, AC005020, AL133415, AL049697, AL138752, U51244, U95742, AC006146, AC004707, AC008518, and AP001726.
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HSKNZ25	20	585675	1 - 674	15 - 688	AI423388, AA705880, BF525904, AA349525, AA488891, AA836122, BF348027, AA465431, AL10146, AL302088, AA584447, AW968376, N46920, AI986100, BF753058, BE160619, AI077517, AL040766, AA890243, BE244498, AA325569, BE160856, AA771925, AA489237, AA126066, AV656598, AW372110, AW137313, AL039325, BF959941, AA046254, AW136539, BE072182, AA465360, AA917759, AW962078, AW816387, BE935535, AA573136, AW517075, BF903430, R45086, AW797195, AI368519, AA078308, AI022603, AI354688, BF761820, AI565643, AA810621, W87764, AW852367, BE149694, AV653343, BG010915, BF989770, BF762909, BF834278, BF897554, BF929290, AW861486, AI052645, AA280250, BF857730, BF857711, AW857610, AW857593, BE729724, AL118895, AW857604, AW938518, BE142184, BG105313, AA077547, AA577804, AA496279, BE089188, BE142866, BE142936, BE161095, AW888812, AW857605, AW945790, BF750582, BF813834, AI651771, BE089952, AW898784, AW845700, BE393138, AW902136, AW845696, BF953515, AL024458, AC005562, AC007204, AL031228, AL035246, AC012309, AC010632, AC003975, AC011460, AC007275, AC008821, AL445249, D28126, AC009489, AL122001, AC003682, AL121905, AC008537, AL136317, AL139277, AL022318, AC078899, AC002301, AL360088, AP000346, AC022137, AL033526, AC068948, AL133162, AL121985, AC006504, AC019173, AL132656, AC000397, Z95704, AC010328, AC008176, AC073898, AL161802, AL121932, AC006462, AL365505, AL031775, AP000431, AP001675, AC022148, AC008969, AC074331, AL035458, AL078614, AP001464, AC004976, AL109943, AC022596, AP000498, AL163202, AB026898, AL137070, AC008554, AL136419, AC010889, AC002049,

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HDPFK39	21	588869	1 - 736	15 - 750	BF892783, BF894772, BE243071, BF892143, BF892796, BF892140, BF899235, M18044, J03925, J04145, AF268593, S52159, S52157, S52153, S52154, S52152, S52161, I19138, M76724, S52155, M82856, and U59801.
HL1AB07	22	638220	1 - 870	15 - 884	AW410018, AI956068, AI140111, BE902158, BE410544, BE559955, AW009487, AW006443, BF237868, AV714206, AI301924, AI494409, AV717288, BG256432, BF976795, BG166509, AW080966, BE619019, W52136, AV709106, BE619682, AI189286, BE566002, AW084868, AI687212, AV711092, BF697110, BE567660, BE409695, AV710866, AI801202, AI032877, AW410017, BE568300, AI262521, BE963864, AI523891, AI184261, AV691952, BE091071, AV746007, AI566878, AA151257, AI144492, AA826477, AW083498, BE787965, BF851971, BE535774, AW410030, AI399980, N36966, BF435067, AI809283, AI018420, BF967855, AI819520, W30822, AI128356, AI025970, BE672642, BF081971, BF081981, AI880707, AA127920, AW779049, BF676071, AI206487, AW471111, AW028734, AV762883, AI150971, BF881900, AA889268, AA887476, BF858077, N36122, AI190417, AI127953, BF696643, AA843205, N38925, AI566572, AI066676, BE931182, AI990970, BE879114, BF028182, W37751, AA730086, H48432, C18042, AA142846, AI139565, AI688339, AA679046, AA588794, AA127971, AV716260, AA001534, AA719696, AI074105, AA642642, N42965, AV762116, AI375763, N47999, W67531, AV723563, AI627627, AA494298, AA973740.

HHGAS83	23	654868	1 - 833	15 - 847	<p> AI016758, BF081942, AA151258, BE905596, AI225090, BE875848, W02508, H46679, C04154, T60074, BF678014, BG106733, H41469, BE270088, N69681, AA844464, AA430561, AA583307, AA461150, AV762407, AA127062, D19615, AI752939, R81805, AA025474, AI066496, W37750, H41039, AV745238, AI924470, BE004170, AI344530, AW880670, H72482, AA018348, AA514449, BF475775, AI125939, H29277, AI004753, AI355113, AA844121, BF892448, BE825656, T35178, H22508, R81909, W31172, AA976620, F35745, H65927, H22469, AA917898, H18879, H20360, AA354526, AA460845, AA610792, AA844581, AI984747, AA532788, R89209, AA694042, H18878, R50840, N30666, AA834054, W67532, R89101, H58424, AA650593, AA018347, R82743, AW572104, AA055147, AA301393, BE463668, AI024508, AV683793, AI630440, H42928, AA343997, AV690683, N32244, AV689469, AA890629, AA433978, H46678, BF222315, BE866553, AW888410, AV685213, W25676, BE091036, AA084018, AA337082, AW088862, AA112174, R34238, T85674, H40286, BE568860, T34863, N94289, AV705344, H20171, W02840, AW380085, AW380101, AW948839, AW380091, AA353222, AI184040, T55401, H58425, AW380097, N51206, BF056703, AA650550, T55474, AV738416, H72883, AA054937, AA704634, R35565, AI198351, BF842567, AW885411, AA464336, BF967553, N46497, R32185, F24158, R32236, BE925396, AI612942, W92351, AX015062, AF161504, AF151884, AC007237, and AX014860. </p> <p> AL533363, AW156912, AI816293, BG178409, AL533268, BE780411, AW157766, AI798138, AI963352, AI928783, AW262125, BE791202, AV759165, AI674833, AI039883, AW162562, BG178768, BE877936, AV722302, BF571229, BF339857, AI830091, BF126571, BF674685, AI986467, AW148939, BF345205, AV711322, BG236045, AW272546, BE872856, AV723940, BG163828, BF967950, BE745145, AA572799, BE899054, BE615020, AW161689, BF529506, AI206529, W93860, AL533542, BE799051, BG232073, AI200704, BF973309, BF679748, BF974878, AI199823, AI817392, BF184997, BF967861, AV710824, BF338381, N25541, AA669821, AV702224, BF528571, BF530905, AA593762, AW157587, AW157474, AA128267, BF974287, AV711487, AW029137, AA577607, AV707789, AA864492, AV733623, AI077676, AA576598, AA575898, AA708990, AA843178, AI338574, BF239951, BF820971, AI832599, AI139644, BE273067, AI745646, AI340072, BF210950, BE165278, BF206608, BE614815, BE165293, BE165267, BF700461, BF821744, AI276918, BE165274, BE165284, BE874868, AI630859, BE165285, BE165295, BE165281, BE165287, BE165289, BE165094, BE165276, BE165272, BE165273, BE165275, BE165110, BE165296, BE165286, BE165277, BE165157, BE165165, BE165084, BE165294, BE165290, BE165087, BE165271, BE165077, BE165089, AV734637, BF351286, BE165095, BF772629, BE165270, BF339501, BE165078, BE844143, BE165088, BE165099, AA814150, BE122846, BF967319, BE810478, BF342269, AW386221, BE165090, BE279632, BE165085, BF351288, BE165116, BE165091, BE165098, AI139451, AI673724, N34138, BE165092, AA970318, AA506290, W67498, </p>
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HTSGU37	24	704405	1 - 502	15 - 516	AW163711, AI815378, AL524692, AA813566, AF019406, AL050341, and M95610.
H2LAN34	25	705692	1 - 530	15 - 544	AA314140, AI623759, AW954842, AV747509, AA768701, AW005593, AI420537, H65282, AW469272, AW469280, AW959628, AW966534, AW966053, D58283, AW975618, D80043, AW966029, D57483, AW964756, AV699550, D80253, AW973334, AW958993, AV718489, AW978661, D80164, AW966531, D80366, AW975621, AW959799, AV699447, AV718440, AW960465, AV720028, AW978634, D80022, C14331, AW958992, AV718770, AW965163, AW949641, AW973541, D59467, AW966022, AW965177, AW973485, AV718844, D51423, D59859, D81030, AW966041, AV719783, AW966013, D80391, AW966065, AV720464, D59787, D80166, AV722801, D80195, AW959570, D59275, AW978648, D59619, D80210, D51799, AW964488, AW960553, D80240, C15076, AV719822, AV720791, AW966054, AV720203, AV718692, AV720731, AW966050, AV719188, AW973307, D80227, D80188, AW966062, AV719324, AV718938, D80024, D59502, AW959597, AV718633, D50995, AW975605, AW962082, AV718800, AW965197, AW965184, AV720211, AV718931, AV719557, D80196, AW973474, AV723927, AV724520, AW959136, AW959062, AW964477, AW956434, AW949656, AW949654, AV699927, D59889, AW949642, AW959202, AW960532, D80212, C14389, AW965158, AW964737, D80219, AW949632, D59927, AW973482, AW965185, D80269, AV718530, D80038, D50979, D80193, AW966075, AW949629, AW949633, AW962245, AW949645, AV719468, AV718707, AW949657, AW965175, D59610, AW960473, AW966059, AW956397, AW949653, AW949646, AW949658, AW949631, AW965196, AW949643, AW949618, AW973488, AW949655, D80378, C14429, AA305409, AV720878, AW959469, AW975613, AV701004, AW973330, AV720812, AV721386, AW966043, AW966023, AW753053, AW959582, AV723097, AW973447, AW960504, D80241, AW960564, AV700889, D80045, AW975623, AW960570,

HPMBZ40	26	711500	1 - 882	15 - 896	<p>AW966030, AW960454, C14014, T03269, AW178893, AW752082, AV700229, D51060, C75259, AV720654, AW973465, AW965176, AV742001, AV742667, AV701125, AV701335, AV701166, AV742430, AC012627, AC008554, AC011477, AC007204, AC024563, AC008626, A62300, AX033851, A62298, A84916, AX027925, AJ132110, AR070327, AR018138, AX047063, AX047064, X67155, AX021518, A25909, Y17188, D26022, AX035434, AX020191, A67220, D89785, A78862, D34614, AX02649, AX020190, AF058696, AX047062, D88547, AR008278, X82626, AR077702, AB028859, AX028130, AR025207, AR087649, AJ294956, Y12724, AF260572, AR074545, AB012117, X68127, AX015396, A82595, A94995, AJ287395, AR088705, AB002449, A85396, AR074141, AR066482, AR060385, A44171, AX042372, A85477, AR008443, I19525, A86792, X93549, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR054175, AR074139, AR066490, Y09669, A43192, A43190, AR038669, AR066487, AR074136, I18367, A30438, D88507, I14842, D50010, Y17187, AF135125, AR008277, AR008281, A63261, AX035429, AX035428, AX035426, X64588, AR008408, AR091537, AR062872, A70867, AR093385, AR016691, AR016690, U46128, D13509, AB033111, A64136, A68321, AR060133, AR087528, I79511, AR071754, AR064240, AB037923, U87247, AB023656, U79457, AF123263, AR032065, Z82022, A63887, X93535, and AR008382.</p> <p>AW104075, AA322168, AA318382, AW582134, AA559937, AA635043, AA309573, AA664669, AI890563, AA747333, AA083698, AI002831, F31565, AA327808, AA640478, AA307971, AA101115, BF438598, AV656583, T41261, AA962042, BE147478, AA614771, AA548695, AA179423, AA657363, AV709285, AI708675, BG121326, AI350430, AW393836, AW393837, AA083697, AA171770, AW393902, T59870, F21378, AA679905, AA515952, F20900, AA828709, AA179773, AA230071, AA327627, T58575, AA669666, AA340945, T73373, AA805827, AA328641, AA729868, F31199, AA729864, AW378613, AA182721, AA130896, AA364450, AA229102, AA299112, W32976, F29405, AA888657, AA328937, AA079176, AA383431, F33309, AA363495, AA328075, AW361074, AW059576, D11891, D51386, AA502814, AA507714, AA299168, AW582136, D11796, F17656, AW378614, BE747323, BF437529, AA746958, D55360, AA484708, AA767968, AA627228, AA507186, AI708996, AA082512, D52903, AI302193, D53594, AA329939, AA341403, AA827269, AA172100, T53280, AA748072, BF906802, AI302449, T53153, AA304439, AA341417, AA962113, AA522638, AA604015, T63562, AA484205, AA593695, N68907, T94322, AA501477, AA181035, AA181548, AA847052, AA583572, D12365, AA180490, AA507806, AI628828, AA630793, AU122870, AW276534, AW304926, AA622673, AA225033, AW270722, AW104696, AA578036, AA053440, AA773121, AA128815, AI679291, AW085649, AA621862, AW058229, AA736894, AA480608, AA665010, AI884565, AA321126, N31278, AA187890, AA244150, AA747111, AA191223, AW270043, AA593407, T50429, W52460, AA132470, D53323, AA328902, AA159715, D54432, W68495, AA167322,</p>
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HLYPE52	27	732342	1 - 998	15 - 1012	<p>BF971932, BF237781, AW338866, AI963716, AA573832, AA987495, AW058614, AA128438, H51921, BF732971, H27808, H94212, AA993608, AI159855, BE872759, AI469694, AI828778, W69653, AW873554, AI688311, N77573, BE898545, AW601461, AI741570, BF831400, AA160897, H49117, AI348273, H27183, AA158489, H44990, H92982, BE884960, AV709626, AA159945, BF873908, AI795832, AI795829, BE140739, AI816555, AA846337, H28378, BF810845, BF813075, AI816592, BE140751, BE140728, W69654, AI984845, AI961817, F15634, AW954779, R72015, AX011711, AF035771, AR070449, Z50150, AF004900, U82108, AC005600, AB016243, AB014460, AB026489, AB026490, AP001038, AP001732, and AP001039.</p>
HTTEC47	28	745343	1 - 1010	15 - 1024	<p>AUI13337, AL133785, AUI17996, AI798884, AUI16829, AW847640, BE142866, AW836282, AUI120388, AUI21070, AV707591, BG170577, BF673669, BF345679, AW833146, AUI137603, AW833143, AV649129, AA683309, AW976291, AUI139654, BE144683, AI114469, BE062166, BE144698, AW836280, AW902129, BG109731, AW813625, BE157028, BE158876, BF513132, AV731068, AV731522, AW833033, AV731034, BF746208, BF770900, AW833187, AW854788, AW832969, BF800480, BF929942, AUI22701, BF675777, AW813623, AW820037, BF830719, AW819804, AW819805, AW936057, AW819798, AW835724, BE066033, BF244129, AV731276, BF748007, AUI19706, BE009738, AW853622, BE066010, BF853047, AW820049, BF675045, AW820116, AW835725, BE066035, BF808065, BF997232, AV712125, AI246137, BG164408, AW819881, AW820040, AW820126, BF944744, AW819806, AW845700, AW877560, AW835642, AW853349, BF754324, BE780891, AW845696, AL045241, AL046683, BF964660, AW820052, AW833180, AW817951, AW819969, BE062378, BG104752, BF756986, AW820114,</p>

					AW819799, AW820115, AC022596, AL008633, AL359763, AL096803, AC020717, AL138702, AC024092, AC060232, AL161730, Z82211, AL022577, AL035464, AL035090, AL137251, AL133406, AL356022, AL033530, AL355390, AL121938, AC007179, Z82205, AL139395, AL049844, AL390023, AC024247, AC010175, M22334, AL080284, AL157360, AF064862, AF003535, AL034403, Z82899, AC008604, AL161804, AC048346, AC012082, AC002429, AC006479, AL030996, AK021593, AL133417, U65397, AL022144, AC004103, AC007090, AC013410, AL445143, AK024101, AL163281, AC008518, AC002072, AC010235, Z82212, AF126403, U93574, AC016751, AL135918, AC023481, AL158206, AL031054, AC022335, AL139229, AC007159, AL049562, U93572, AC003106, AL445196, AC004531, AL132821, AL135936, AC003990, Z73965, AL390022, Z81009, AC004954, AC007253, AC003091, AL033524, AL121933, AF196972, AL034427, U93563, AC005609, AC004673, AC012442, U93571, U93573, AF149422, AC004917, AC007785, AC068069, AC005993, AP001690, AL136307, AL049629, AC005739, Z81145, AL021069, AC020550, AL096862, Z79699, AC006079, AL356962, L81652, AP001671, AL133500, U93569, U93566, U93565, AC078918, AL035258, AC008456, U09116, AL117191, AF248484, AC006070, AC015971, AC016623, AC003083, AC007204, AC007214, AC005686, AC008716, AL133249, AC005384, AC007558, AL109800, M22333, AC004029, AL161905, AC007000, AL109656, AC005823, AL359846, Z95400, AF148856, U93570, U93568, AC017089, L19092, L19088, M80340, AL121825, AC003085, AC022542, AC009262, AC004748, AL121868, Z82195, AC006383, AC008394, AC008178, AC002564, AL365276, AL035397, AC002523, AF064865, AL365508, AL136442, AC012472, AL445439, AC020647, AF127577, AC006559, U69729, AC007400, AC006287, AL020992, AL353587, AC004063, AL139109, AF110324, AC005230, AC008561, AC004058, AC024094, AC007488, AL136970, Z98751, AF149774, AL031665, AL365475, U93564, M80343, AL161659, AF036235, AC009319, AC022224, AL121755, AL445306, AL031115, AL353140, AL135879, AL121790, AL357153, AL121591, AC005994, AC008550, AC078845, AC019212, AL008987, AF172277, AL133370, AL121943, AC005024, AC010461, AJ010598, AC006992, AC005915, M19503, AP002534, AF225898, AL033538, AL390035, AC004389, AL163207, AL109845, AC008436, AL359755, AL049555, AL121757, AC003098, AL049796, AC019050, AL109805, AL357507, AL136441, AL445192, AL049563, AL049828, AL109620, U93562, AC010176, AL136296, AC026888, AL050329, AP000347, AL139192, AL121900, AL163278, AC005201, and AL354777.
				15 - 442	AI929681, AW592729, AA648798, BG259038, AW750255, AW245532, AW651722, AW573263, AW250589, AI015535, BF031458, BF764886, AU124917, BF794818, AU125620, AU141564, AU142862, BF763514, AU125790, AU143619, AU120837, BE886545, AU125751, AI220039, BE258310, BE925039, BG005263, BF739929, AA024938, BE895457, BE383414, AA467947, BE276994, BF986402, AU125668, AA250731, BG251310, AU131885, BF219963, BF027149, T36005, BF218581, BE797690, AA211028, BE891460, BE885888, BF026383,
HOFMO90	29	746416	1 - 428	15 - 442	

HCHND34	30	762806	1 - 816	15 - 830	<p>AU143011, BG252532, AL536067, AL538416, AL518012, AA4711174, BE727048, BE792076, BG121144, BF979650, W40299, BG026681, BE299425, AV749633, BE547012, BE902225, BF025777, AL040485, BF303752, BG169183, RI7987, AL532385, BE538688, AL518448, AA471318, BE798701, BF307303, AA313413, BF306715, AA074578, BE122769, BF206640, Z41942, BE244339, AA181660, BF205625, AA196912, T35534, N56034, T74205, BE269688, BF304135, AA258411, BE385651, AA092564, BE156028, AF046001, AC005899, AB032196, and AB013357.</p> <p>AL538129, AL525022, BE872112, AI111183, AI114736, BE896548, BE877234, AI174851, AV705883, BE875361, BE881218, BE881076, BE880128, BE879304, AV706307, BE875412, BE874647, BE879135, BE877386, BE877647, AV729201, BE898937, BE881222, BE876531, BE875889, AV726346, BE878894, BE875858, BE876704, BE874520, AI133323, AI133348, AL513828, BE880711, AV728251, BE879909, BE876043, BE878122, BE877496, BE876719, BE874662, BE877268, AV706779, BE878178, BE879695, BE876425, AV729465, BE873343, BE891387, BE867307, BE877150, BE877004, BE874747, BE875792, BE878626, AI147501, BE870155, BE877131, AV729314, AI750078, BE876651, BE877390, BE880762, BE898750, BE873954, BE874215, BE877497, BE874926, AV693283, AV725309, BE877757, AV705995, AL048390, BE873478, AV725316, BE880690, BE878213, BE879455, BE892487, BE874003, BE876550, BE897096, BE898560, BE877488, BE880425, AV702923, BE875968, BE891700, BE874696, BE877643, BE879522, AI749163, BE876062, BE870577, BE897811, BE876098, BE877242, AV710316, AI065146, BE868548, BE896982, BE899424, BE880602, BE876884, BE868527, BE879775, BE869133, BE874445, BE875601, BE868532, BE874422, AI114553, BE878330, AI110700, AL036120, BE875438, BE869149, BE879302, BE877542, BE898986, AV726493, BE879410, AV706277, AV760899, AI114569, BE876037, AV721544, BE880237, BE876785, BE879859, AI133444, AV726351, BE879895, BE867317, BE878477, AV709557, BE877726, BE878238, BE880722, BE898371, BE880140, BE875261, BE877598, BE875955, AI133486, AA639334, AV706033, BE878677, AV708006, BE875918, BE878422, BE881146, BE868603, BE881693, BE877813, BE896992, BE895621, AV702580, AV714977, BE879413, BE877674, AI174902, BE879761, AV709615, BE875062, AV723290, BE881506, BE880977, BE875398, AV705696, BE543600, BE894635, BE880958, BE880950, AV723029, AV583759, AI114723, BE878900, BE878010, BE880947, AV721627, AA723026, BE868786, BE874402, AV707010, AI721239, BE875536, AV723395, AV702695, BE881638, BE879688, BE878173, AV659215, AV708355, BE880276, BE877271, BE876568, AI833114, AV721920, BE881057, AI110881, BE880427, AI207615, BE880442, BE875310, AI110734, AV759353, BE881359, AI114585, AV708529, BE878468, AV721831, AI609232, BG179400, AV722162, BE881594, AV722611, AV702323, BE878381, BE881411, BE878333, AI720161, BE895091, AI114699, AV706568, AV726110, BE880705, AV700257, AI733732, AW583569, AI133302, BE877616, BE894655, AI110877, AV721391, BE880758, AV706979, AV705894, BE878086, BE877479,</p>
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HAMGI86	31	785328	1 - 653	15 - 667	BE879580, AV721794, BE873841, BE868332, BE875382, AV724988, AI133691, BE874084, BE894924, AV727742, AR083056, I27367, X54629, AX039612, X62996, V00662, X93334, L08441, D38112, D38116, AL359334, X93335, D38113, X93347, D38114, X97707, AF134583, AF175976, U35430, Y10129, X84075, AX026544, AF004341, AF175985, AF144745, AB005535, AC007282, Z79403, Z79419, Z79459, AJ252237, and I07623.
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HLWCN67	32	794213	1 - 677	15 - 691	AW978308, AA369775, N53897, AA807270, W95818, W95857, BF724803, AI125532, BG117266, BF968973, AU128956, U69567, BF102704, BF965471, BE770768, AV758189, BF111890, AW274041, N55318, D45459, AA301769, AA434064, BF002861, C04552, BG001662, AI569610, AA610288, AW580433, AK002172, AF090904, AB020703, AX029226, U95000, AX029228, and X64411.
HOFAC09	33	806819	1 - 854	15 - 868	BE739621, BE379183, BE617530, BG108163, BE619662, BE748774, BF570337, BE305001, BG249872, BF569120, BE612784, BE619823, BE271125, BE619946, BE617896, BE271060, BE300237, BE617937, BF966616, BE738551, BF340609, BF688981, BG257657, AV713811, BF974766, BE293496, AV717562, BE293387, BF689303, BF220284, BE748652, BE619923, AA642201, BF688590, AI174682, BE279777, AV715664, AA641148, BE299551, AV652787, AI174681, BF683366, BE747352, AA857839, BE872623, AV718269, AA640951, BG105683, BE778293, BE393602, BE546109, BE250635, BF982878, BE531162, BF570115, BG178614, BG179165, BG163531, BE531088, AV717782, BE613177, BE902527, BE271042, AL514500, AA58434, BE738219, AA837571, AV685977, AV756374, BG034916, BE740524, BE262924, BE378440, BF984231, BG029312, BE388222, AV684312, BE748508, BG256740, AV702438, BF237938, BE408065, AI817627, BG163462, AW001149, BE622882, AU128631, BG180980, AV688195, BE260549, BG255882, AI708325, AV684830, BE881395, BE788254, BE787490, BE249917, BE909118, BE305209, BE735960, BE397738, BF982126, BG256362, BF686276, BF237724, BE559874, BE266498, BF059086, BE251388, AA632140, BE787304, BE300231, BE293776, BE547987, BE439558, BG250330, AA642980, AV698344, AV715876, BE794978, BF125097, BE793931, BG256096, AV685452, BE388457, AA857476, AW149599, BE889684, BE617898, AV714051, AV688156, AV684821, BE619643, AV717638, AV717113, BE737518, BE545839, BF965676, BE748476, BE250538, BG029641, AV645505, BE736394, BF983033, BG027429, BE745157, BG180061, BG113341, BE512833, BG168282, BF696011, BG118147, BE394485, AV716748, BE728375, AI749591, BF340890, AW001147, BF184101, BE250051, AA551057, BE903863, BG114266, BE305190, AV709267, BE293782, BE549134, AV714025,

HRDEL61	34	824886	1 - 810	15 - 824	<p>BE787082, BE867785, BE293862, BE270866, BE241730, BF726447, BE293418, AL515432, BE549236, AL048321, BE250128, BE547824, BF686567, AV704265, AV689285, BE746994, BE305240, AA641228, BG122667, AL047780, AI114669, AA511126, AA663427, AI816286, AA628465, AW170178, BG180666, BG254849, AA573113, BE408039, BE256744, AW327938, BF036883, BE249983, AA573126, AA307742, BE513000, BE540263, BE781757, BE785532, BE745552, BG255393, BG248626, BF345711, BG028606, BE786948, AV685448, BE742152, BG114313, AI660952, BE788601, AI826591, BF317338, BE903912, AI146900, BE618614, BF314522, AA961746, AI246524, BG109603, AA603104, BE797431, BE730353, AL513894, BE548848, BF212989, BE614351, BG179616, BE379047, BE542702, AI660290, BF793939, AI066797, BE907279, BE260599, AI890877, BE740911, BG164827, BE300246, BE267892, BE538628, X15096, Z29530, X15267, M17885, AK001313, AF013214, AC004263, AL133163, AF044496, L28704, AB007187, AF162483, AF132973, and AF155662.</p> <p>AI696793, AW162288, AV703259, BF821897, AI358089, F13749, AW819125, AV726885, AI963720, AV701116, AA071334, AW419262, AI821881, AI821918, AW504224, AL046409, AI745151, AA654781, BF750422, AA579179, BF821009, AI284640, BE301111, AI431434, AW410402, AA533033, AI076236, BF529327, AL120343, AW979204, AW406755, BF767028, AW753399, AA715814, AI358229, AL079645, AL037910, AA659627, BF668217, AW518220, BE138594, AL046746, AA410788, AW500684, AW021116, AW500029, AI755214, AI754105, AA581903, BE062729, AV764259, AI754567, AI613280, AW504686, AW858127, AI537538, AI623764, BG236628, AW872676, AI431303, R59567, AW504297, BE676915, AV740009, AV710482, AW673221, AI732151, AW575165, BG000961, AI133164, AW576251, AV761519, AI821714, AI792133, AI791913, AW970877, AW975049, AW157005, AA563770, AW276827, AW964231, AI733856, BF916934, BF589066, AI623423, BF678990, AL118991, BF677892, AA657835, AI620585, AI610920, BE049229, AI049676, AV735495, AA610491, AI281881, AW023111, BF805088, AI783911, AV761745, AI270117, AI636627, BG036665, AI821785, N23260, AW089589, AI457397, AI028510, AA878149, AW501806, AA130647, AA603323, AI054333, AV710066, AV742057, BF915247, AI963221, AV763583, AV761810, AW271917, AW833862, AW089322, AI017251, AI251034, BE300580, BF942454, AL134330, AW193265, BE139139, AW081194, AW499745, AI732764, AC002350, Z85986, AL136984, AL035701, AP000557, AL157877, U85195, AF047825, AC004983, AE000658, AC007957, L77570, AC004536, AC005899, AC007850, AC007537, AL136443, AC011449, AL137070, AL139039, AL133551, AC004985, AL121871, AL031053, AC005522, AL078614, AC023490, AC010463, AC008924, AL035071, AC008821, AC016655, AC017620, AL136097, AC008123, AC025588, AL354696, AC005086, AL137139, AJ239027, AI138828, AC008745, AC016898, AC055740, AC006057, AC004804, Z72521, AC006368, AC011464, AL133163, AL136317, AC004253, AL080285, AC011510, AL136296, AC010977, AC020910, AC010419, AL109804, AP000311, AC010087, X62357, AC018755, AL445195, AC006285, AL365505, AL357560.</p>
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HDPOR60	35	828176	1 - 3339	15 - 3353	BE907538, BE250250, BF311047, BE906254, AV726530, BE304645, BF525388, AW959258, AW954291, BG118078, AI051611, BF916882, BE719457, AW966732, BF732249, BE719459, AW390157, AA150165, BF923015, AI928260, BE779329, AA457484, BE818400, AI188780, AI524627, BF329818, AA609346, AI184768, BF733484, AI348486, BE671307, AI598015, BE818415, BE764192, BE717662, BF733491, BF733492, AI674848, BF886247, BF886242, AW197044, BF888665, BF888510, AI369052, BF888666, AA984504, BF513927, BF888512, N58740, BF888662, BF888671, BF812194, H27264, BF888524, BF377972, AW080528, AA458747, BF371802, BF377969, BF093530, BF888530, BF376487, AW025603, BF885116, BF766670, AI283519, BF888682, N90132, BF081241, BF093542, BF872063, BF377968, BE818399, BF093531, BE872720, BF093535, AA652251, W16733, BF093536, Z43110, BF093539, BF934232, AW294491, BF884943, BF093532, BF093543, AA813169, AI905629, AA229779, H14451, BG012148, AI692605, R50198, AI126253, BF093546, AA865539, AA341212, BF885117, R83103, BF089975, BE938102, AI886490, AA385992, BF081230, AI685596, H70564, BF762747, H50721, AW087793, BF352676, AI364918, BG013986,

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HPRTS71	36	828574	1 - 1032	15 - 1046	AW118056, AI800662, AI589171, BF591232, AI188335, AW082251, AI818095, AW021236, AW591559, AA648866, AW246660, BG230460, AW452998, AI083735, AW835356, AI167977, AW468639, BG109889, AI470164, AV651830, AI334390, BE673379, AA741201, AL523450, BE070373, BE070459, AA643779, BE070441, BE548231, BE696414, AI248596, AW062368, BF055036, BF111561, AA614258, AL037459, T92093, AI420092, BF741961, N79460, AW393612, T92929, AA649698, AA716590, T93045, T29513, N98655, BF089688, T98007, R28667, AW974688, AI470059, BG179958, AI520746, T92007, AW514438, AI565207, AI252942, AI014682, AI276530, AA707158, AW580299, AA847513, BF803888, AI224129, AV747633, AA452013, AF305057, D00596, X89602, and X67098.
HOHB190	37	828862	1 - 405	15 - 419	AA021223, BE548133, AL045143, I15526, I15525, M76125, AC011510, X57019, X59560, X63535, and X66030.
HOHAL47	38	828872	1 - 907	15 - 921	AU132881, BF220328, R87908, BE613810, AW250257, AA931266, AW015928, BF095373, BF909602, BF095352, AW502696, BF796996, AA370819, AW502753, BE327008, N49168, AI800258, AI738786, AI651019, BF431451, BF891293, AI341119, BE464154, R87900, R87888, BF761409, BF761414, BF761411, BE672137, BF766414, BF761395, BE551754, AB020866, L27841, and AB029291.
HYASE58	39	829298	1 - 820	15 - 834	AL520115, AL520114, BG249568, BE858532, AI719186, AL524961, AA978354, AI963126, AW168149, AI016474, BE464809, BE541556, AW274265, AA126722, AA948354, N95214, AA779559, AI143841, AA988766, BF109578, AI052155, AI057145, AA868690, AI123988, AA862955, AA531469, AA565025, AI040746, BE315358, W58681, AA883150, AW973071, F27739, AW469738, W25247, AA677158, AA136191, R72558, AA137218, BE774145, BG163522, AW804292, T85571, R06411, BE559994, AI369527, R06410, BE931292, W58682, T85572, BF984740, AI202246, BE771601, AW204406, T98604, T98605, AA126819, BF804866, M29971, E02953, X54228, M60761, M71767, M84524, S61804, M76704, X54862, X65081, AL355531, S52068, S52071, S52289, AR040785, and X61657.
HKAAH95	40	829958	1 - 569	15 - 583	BF968527, BF972443, BE388293, BF245922, AI432365, BF984449, AI376939, AW959079, BF111350, AI809862, AW967166, AI708626, AA743821, BE274422, AA316016, W31195,

					<p>AI800592, AI475502, AI693918, AI709386, AA788752, AA554691, AI077974, AU150242, AA082177, AA308664, AI129002, AW963595, AA815094, AA064826, AA826696, BF109200, AI830845, AW959077, BF687634, BE879836, AA133252, AA757359, AA064769, AA129757, AA187005, AA527421, AA760765, AI300800, AA650536, AA100960, AA083271, AI185271, AI015127, AA805805, D53222, AI244634, AA873340, W38586, AA372743, AA357610, AW151779, AW006731, AW592333, AA533279, AA372493, N90200, BF326039, AI434196, BE168715, AW804095, AA303407, AA303583, D30971, AI023237, AA188378, AA876652, AI074752, AA721457, AI880398, AA935370, AA079099, AA313040, AA226394, BF326038, AA091473, AA045674, AA302617, BE815031, AA045675, AW117957, BF326043, AA083230, AA249292, AA385455, BE004885, AA216127, AA523135, AA079126, AA724213, AA766192, AA902562, AV759831, AA491262, AL110170, D17041, AA527902, AA632078, and AA769476.</p>
HTTIQ02	41	829881	1 - 440	15 - 454	<p>AUI33091, AU142098, AU141602, AU134034, AUI35799, AU141415, AU136549, AU141554, AL520149, AU141624, BF309998, N44941, AA165467, BG164969, BF305751, AA370928, AI025054, BE544595, BE297897, BF203543, AL047272, AA490707, AW998147, AW998144, BE719597, AV650018, L19871, U19118, and M63282.</p>
HWACG91	42	830195	1 - 647	15 - 661	<p>BG033793, BG255945, BG259666, BE730050, BE794184, BE280411, BE262457, BE407137, BF974510, BG260129, BE387574, BE250058, BE729393, BE900244, BE280432, BF317365, BF975884, BG255124, BE384164, BE875157, BE275535, BF697620, BE249873, BE729424, BG104941, BE528476, BG178885, BE389393, BE742299, AA160739, BE279276, BE730823, BE730234, BF696116, AI905415, BG169584, BG248765, BE409699, BE409459, BE383471, BE279295, BE514728, AI693883, AI906409, BE733527, AA133328, BE734917, BE747004, BE778282, BG120073, BG116573, AI906399, BG252353, BG250627, BG115053, BF205427, AA932527, BF974800, BF976607, BE275617, BE747869, BE258222, BE899354, BF667612, BE732117, BE394529, BE019949, BE255854, BF663000, BG115598, BE270894, BE877328, BE894791, BE742367, BF981923, BG025205, BE270877, BE313842, BE277239, AW246075, BE731739, BF689778, BE266619, BG122027, BE275677, AW327437, BE958080, BE293564, BE741359, BE279606, BE262807, BE731616, BE278518, BE797742, BE280931, AI906381, BE259001, BE620197, BF342810, BE278592, BE269494, BG033349, BE799713, BE252649, BE790350, AA069850, BE744820, BE731628, BE958554, W28216, BE269344, AW246351, BF665331, BE409170, BF346422, BG025476, BE892710, BE251197, BE729414, BE395317, BE747019, BE379494, BE535406, BF980658, BF309487, BE910196, BE795220, BG260707, BG255740, BE310723, BE265360, BE297749, BF311424, BE409537, BG165401, AA186725, BG034975, BF310637, BE744823, BF339822, BE883169, AW675050, BE884838, BE275911, BE394260, AI905506, BE736798, AA131028, BE296169, BE385509, BE735183, BE273644, AA160637, AA157966, BF796949, BG171791, BF103552, BE278910, BE735411, BG260083, BE895233, BF206952, BE264220, BG255060, AA313667, AA076309, BF149164, BF797136,</p>

					<p>AI809346, BF794443, BF309985, BE793349, BG248853, AA159110, AA190534, BE262091, BF128662, BE536828, BE251454, BE263943, AW662648, AL038584, BG255561, BF696737, BE792806, BF313073, BE742815, AA101958, BF792436, AI906370, BE206810, BE889820, BE898859, BG165862, BF315593, BE255244, AA113902, BG122753, BE897628, BE727594, AI218219, BE746344, BF055113, BF725362, AA587341, BE382571, BE277151, BE262004, W74583, BF725096, BF315746, BE388410, BG117808, BF304116, BE274326, BE728690, BG116304, BF315671, BE875140, BF983277, BF308437, BE875834, AA158902, AA155696, BE733144, BE537657, BE293648, AA158943, BE875741, BG120928, BE410167, BE391803, BE251603, BE729093, H69946, BF663924, BE393117, BF972713, AA182917, BE780890, BE394391, BG031646, BF797457, BE315191, AA643715, AA299820, AA364873, BF985994, BG122761, BE253108, AF275719, AX047377, AL136543, AK025370, J04988, AL139392, S45392, AC006226, AL353581, AF288819, and AC013410.</p>
HUFBX52	43	830497	1 - 1969	15 - 1983	<p>AL513910, BF338363, AI799888, BE392997, AW316671, BE044614, AL042665, AA114835, BE394176, BE857118, AA114976, W51953, AV702013, AI972232, BG025156, BE673213, W52502, AW205785, AW137401, BF879476, AI498690, BE504635, AI870560, F33285, AI696138, BF847455, BF847461, H42144, AW797536, AW580466, AI383137, BE504647, BF194734, AW291200, AI567040, T58430, AV707626, AV705123, AV702887, AV705196, T58462, BG104539, T29553, AV705977, AI972231, AI951152, AA593693, AW873877, T47089, AA393219, AA036671, N77388, AV706493, BF093800, AI686156, AV703987, AA575857, AW959494, AV702830, AV701517, H42145, R00971, T47088, AA063592, D11534, R00972, BF826969, BF345006, BF766206, BE840120, BF378651, N52428, AV707224, C01052, U24488, M25813, X73959, Y11915, X87243, AL049547, AF077974, S38953, U89337, AF019413, X71937, L26263, AB010266, AC006289, AF030001, AF049850, AB015623, M83939, U24489, AF086641, M12792, M12793, M17252, M26856, M28548, M26857, M13936, M13935, M11267, M12918, M64933, AB039881, U56853, U56854, K03234, M92836, and M15009.</p>
HWLJE49	44	831453	1 - 510	15 - 524	<p>BG251415, BG027650, AV716313, BE744852, BG168126, BE875004, AV712837, BE563257, BF183014, BG113939, AV701796, BG260019, BF244649, BF974779, BE740291, BG114363, BG035325, BG027799, BG169309, AV722365, AV712753, AI887549, BG027575, AI076353, BF725392, BG167147, BF663267, BG059083, BE300764, BE742593, AA806402, AI682046, BG027579, BG255168, BE906641, AI188649, BF967533, BE513190, BF182834, BG180632, BG113207, AI144531, AI149488, BF345318, BE675790, BG026111, AL048205, BE207355, AW277103, AI612881, AI761676, AI299022, AI270732, AA308274, BF575148, BE379881, AW005575, BE675232, BE729684, AI302970, BF684952, BE259873, AI748792, AI832372, AI342462, BG255930, BE728928, AW304345, AI917533, BE388883, AA308142, AI270352, AA315030, AA314014, AI720893, BE208370, AA181838, AI370898, AA314940, AI735477, AA316359, BE909454, AA582161, AA313264, AV705734, AA316330, AW338556.</p>

					<p> BE730906, AW054848, AW270408, AA316482, AL048204, BF684518, BE730368, AA128653, BF182887, BG248959, AA622771, AA708600, AA316966, BE388426, AA552413, BE907370, BF210707, AA316871, BE730617, F20821, AA316230, AA059344, AA608518, AA778388, BE785770, BE408695, F22738, AI735055, BE729560, W42494, AA314690, AA186781, N57485, AA316119, AA151389, AA188023, AA315181, BE794778, AI571338, BE906523, AA308375, AW873255, BG180555, BF346776, AA501758, BE905876, AW084031, AI686866, AW151692, AI215740, BE281427, BE336892, BE905158, AA315858, BG026639, AI720163, AA622853, AV706793, BF183311, BE908893, AI911854, AI493715, BF687562, BE906127, AA186572, AI566835, BE910116, AI832383, AA314578, AI366934, BE568026, AA972504, AA128640, AA525827, AA128773, AA085915, AI348494, BF965570, AI365423, BE620091, AA315026, BF033646, AA603482, BF237816, AA100923, BE567357, AA316175, BE877679, BE875309, AW474408, AI131330, AI750155, BF197849, AW514308, BF031710, AW152644, AI805579, AA308360, BE139178, AA314770, AW273529, AA433942, AA316292, BE277552, BF594096, AI189776, BF218001, AI828326, BF683513, BF742692, AA622714, AA731831, AI635850, AW269457, N90290, BE744229, AI832624, BE264621, AA496683, AA152205, AA315287, AW271995, AA157114, AI927800, AA186785, BE818645, BE818699, BG150784, BE830831, BE838249, AW769523, BE838220, BE818680, BE830833, AA625916, BF028970, AA508592, AA285319, BF340636, BE818664, AI859361, BE830840, AA100249, AA187300, BF685686, AI081408, BE818690, AA873184, AW268506, AA102595, BF208160, AA148426, AI079753, AI610890, BE907035, AA315876, AW861114, AW080650, AA148425, AI200434, F26435, AA128843, BE838257, AX014347, AX014162, M14300, M18981, J02763, X66449, M37761, AX038700, X52278, D10885, U31867, AI132717, U76365, U04815, X05699, AB031064, AL442082, I89947, I48979, AF090900, AF090903, AF130092, AF113019, AF116631, AK025084, AL110221, AF116691, AF116646, AL049314, AF118070, AF111851, AR079032, AL157431, AF116688, A08916, AF1162083, AB041801, AF130104, AL050149, I89931, AF119875, AL122050, S68736, S78214, AL133640, I48978, U42766, AF017152, AF090934, AF113677, AF119878, AF113699, AL133075, AF130082, AL050277, AF113694, AL110196, AF130059, AF130105, AL050116, A08913, AL390167, AL133557, AL133016, AB049758, AB048964, AL049452, AF111847, AK025339, AF106862, AK026741, AF116644, AL050393, AL122123, AB048953, Y11254, AF218014, AK026744, AJ242859, AF130075, AL117457, L31396, L31397, AF119899, AK026865, AF090901, AF113689, Y11587, AK026045, AR059958, AL117460, X84990, AL359601, AL389982, AF090943, AL050108, AF116639, Y16645, AK000212, AF078844, AF116602, AF113690, AF118064, AK026855, AL080060, AF090896, AK046603, AL389978, AJ000937, AB047615, AF113676, AL137527, AF091084, AX019230, A93016, AF158248, AL137550, AF113691, AK026608, AK000083, AL080124, AF13861, AL049938, AF113013, AL359596, AL162006, AL442072, AL133565, AF104032, AB019565, AX006092, AL122121, AL049466, AF125949, </p>
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HLQBT44	45	832454	1 - 735	15 - 749	<p>AL050146, AL133606, AX019229, AK026784, AK025772, AF314091, AL122093, E03348, AF116649, AL133093, AK025958, AF219137, AL080137, AF207829, AB051158, AL133560, AK027204, AL137557, AK000618, AL096744, AB047904, AK025092, AF242189, X82434, AF146568, AK027096, AL137283, E07361, AL133080, AF079765, AK026592, AL137459, AL359941, AL359618, AB048954, AF125948, AK000137, AL353940, X63574, AL110225, AL117394, AK000652, AF017437, AK026533, AL049300, E02349, AK026452, AF116682, AK026542, AK026927, AK087170, AF177401, AL050138, AK000445, AK024538, AK026583, AF119909, U91329, A65341, AF225424, E07108, AR011880, AK026504, AK026647, A08910, A77033, A77035, AL359615, AF061943, AK026086, AK000323, AK000718, AK026532, AK026534, AK027113, AK026959, AK025491, AL050024, AB052191, A08912, AL049382, AL133113, AL049464, AL117583, AF183393, AJ238278, AF260566, AF097996, AK025967, AL117585, AF067728, AX042059, AB052200, AF271350, I03321, AL117435, AF175983, AK025414, AL049430, A08909, AF130077, and AF118094.</p> <p>AA745837, A1554448, A1830118, AA928341, AA669073, AA630270, AW304776, A1418823, AA630539, AA614639, AA701987, AA507015, AA775672, AA577574, AA947337, AA425865, AA740316, A1925815, AA872373, AA481869, A1287247, AW170694, AA058866, A1141303, A1686727, AA482053, AA456568, A1984134, AA481821, A1251811, AA779177, AA496675, AA938571, AA894451, A1052452, N63977, AA524693, T57094, A1357992, BF594112, AA523604, A1288847, R92183, A1539613, AW194037, A1689207, AA455766, AW129939, AA410742, A1278744, AW805186, BG011966, AW071224, T68990, AA425994, T71879, T58711, AA775671, BG010690, AA235744, H93778, A1631122, AA668735, BF447423, A1933935, AA034382, AW801283, AW801602, AA627657, AA057664, AA551804, A1918451, T71878, T50658, AV692045, AA034383, T72829, C21135, AW515583, A1114853, A1245066, T72828, BF941121, N80768, BG010676, A1141304, AW393623, AA477973, A1803211, BG013596, A1494106, T25929, AW004686, A1500081, BF908767, AW842027, BF909560, BF868853, BF908693, BF909563, BF911325, BF868849, BF908765, BF801119, BF848926, AW243946, BE173882, AW878618, BE001388, BE079012, BF890845, BE073329, BF942940, BF990699, AA400639, AW843089, AW833203, BE166207, A1708714, BE676937, BE085445, AA810087, BF908691, A1039389, BE737951, BF908768, BF911435, BF909425, BF810304, BF909434, BF909438, BF733544, BF848896, AA577947, BF845946, AA559987, BE079182, BF896106, BE079011, AW898529, BF926033, BF874446, BF874408, BF987376, AA577987, AW884119, BF868852, BE146291, AA578162, BG002961, AW176716, BE001389, BF909558, BF908760, AA559135, BF875608, AA558407, BF943834, BF943838, AA504031, BG002880, AW797672, AW014901, BF875343, BF807164, BF934749, BE094775, BE072043, BF905359, AW898530, BF943835, BF878034, AW840660, BF990659, BG002963, BG002966, AW875187, BF762630, BE083383, AW878617, BE085444, BE828029, BE077159, BE075548, BG002874, BF990679, BG002969, BE079010, BF846180, BE094456,</p>
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					<p>BF911326, AW839030, BE183543, BE148811, BF838588, BF875612, AW793897, BF874402, BE075582, BF942943, AW869494, BF942939, AW796714, AW850761, BE698162, BF899584, BG003356, BF990667, BE071701, BF755593, AW793842, BG002960, AW850608, BE069882, AW876913, AW899524, BE152211, BF909561, A1094378, BF990669, BG002976, AA572780, BF987365, AW842761, H20370, AW899525, AW905142, AW878382, AW860057, A1039720, AW603507, AW900160, AW860058, AW855931, H46872, AW850175, AW842714, BF874887, BE094492, BF130497, BE048291, BF876370, BF875598, BE280118, BG002875, BG002962, BF808094, BF805281, BE149153, AF019413, X04481, L09708, M15082, AL139099, AL353733, X04252, X01037, X04248, AB021174, X04249, X04250, M20910, V00477, X04251, X04254, AC055740, AC019176, A75246, X04211, AL132988, AL136303, AL133230, AL357153, AF131216, AL135749, AL031295, X62364, AF317298, AC002464, AC004019, AF109906, AF068289, AC012005, AL078602, AF113677, AR083266, AK000432, AK027160, AL137478, AK026504, AL162008, AF067728, AX042059, AK026542, AL442082, I89947, AF116631, A08916, AF151148, AF119909, AR011880, AF130055, AL137550, AL353956, I48978, A08910, AK026947, AF130105, U42766, AL122049, AF119875, U58996, AX020124, AL162083, Y11254, AL049314, AK026784, AL117457, AL122118, AF090901, AL050138, AB051158, AK026592, AF130099, I66342, A08913, S61953, AL049466, AF090934, U67958, AL122050, AB048974, AF119865, AF113690, AK027164, AK025798, AL359601, AL137294, AK024538, I89931, AX019230, AL117435, U35846, AF032666, AF087943, AF210052, X84990, AL117585, AF061795, AF151685, AL137533, AB052191, AL157479, AF017152, AF090900, R28997, and AA640968.</p>
HSLGG58	46	833088	1 - 1532	15 - 1546	<p>AL529745, AL521111, AL521110, AL530765, BG035239, BE741863, BE868745, BE783786, BG115436, BE743770, BF980935, BF032529, AA927626, BG170791, A1360106, BE792111, A1859705, BE515765, AL530323, A1696973, BE673724, BG059565, A1889305, AW194003, A1435237, A1015554, A1425058, A1653782, A1674150, A1292242, AW008174, AA443658, A1052216, A1689404, AW302350, AA682485, A1039198, AA069797, BG055892, BE740312, AA929022, A1559492, BF966723, AA507307, R89566, AA702532, BG055961, A1355925, AA436762, BF083167, BF083176, AW304693, BG152337, BG055803, AA447045, AV743176, R88883, AA069844, AW015302, N62841, AA340462, BF917627, H12262, AA700417, A1866372, BG222934, AA554984, BG036915, AW075240, A1364688, N77748, AA937871, AA507304, AV735802, AW263377, AW960326, BF038245, BF311363, AA770456, AA657774, A1904488, BF530542, AA327748, AW390282, R85655, AA609069, AW188781, BF885085, AL036980, BG165051, AW302992, AW673679, AW673635, A1268067, BE972180, BE964661, AV706744, BG105895, BG163618, AW946806, BG122481, BF343568, BG151247, A1336633, A1829327, BF764538, BF339594, A1349957, AW150511, BF816037, BG257535, BE886728, A1340627, A1433384, A1357316, AA830821, AW302965, A1620284, BE965121, BF884999, BE047952, A1500662, A1783504, AL036396, AA640779, BF344691,</p>

<p> AI582871, AI680498, BF338002, AA572758, BF904180, AI623682, AI340519, AW074869, AW827206, AI537677, BE964497, BF970449, AL038605, BE905749, AA420722, AL048656, AI538885, AW269097, BE963838, BE964614, AI306613, BE965192, BF793370, AI336495, AW813006, AW169653, AI801325, BF885000, AW074993, BG113299, AI349614, AW071380, BF822127, BF826445, AW238730, AW827276, BE965481, AW151138, AL041220, AI349256, AI312152, AI312428, BE968711, BF924882, AW075084, BF343363, AV760102, AI349937, AI349645, AW105601, AI499512, AW834325, AI334884, AI307543, AW268253, AI307734, AI307708, AI348917, AI312325, AW089179, BE966011, BE048087, AI468872, AI567637, BE965067, AI307520, AI364788, BE789764, AI348897, AW081255, AI471361, AV757639, AV682849, BE964876, AI567385, AI269862, BF038134, BG112879, AI345005, BG256090, AL079963, BF812960, AI272116, BG109270, BE047852, BF812938, AI274759, BF814541, AW021373, AI874166, BF970652, AF096304, AF023676, AF096303, AF048704, AK024538, AL122050, I89947, I33392, A08916, AI2297, I48978, AB041801, A08913, AK026542, AK000391, AF217991, AL359596, L31396, AK026629, AF116639, AK026086, AF116644, A08910, AF119894, AF118064, AF118070, AK026744, AL157431, L31397, I89931, AL049300, AL137648, AR087170, A08909, AF119871, AL122093, AL080127, AL110221, X96540, AB049892, Y11254, AJ242859, AF130059, AB047615, AL137459, AL137550, E07108, AF113691, AL137526, AI8777, AF130075, AK026600, U00763, AF056191, AL049430, AL390154, AF118090, AK025798, AK026592, AL122045, AF130077, AF125949, AL133077, AF314091, X70685, AF175983, AL049464, AF097996, AF119875, AL133081, AF242189, AK025254, AL110225, AL117394, AL133113, X98834, AK000718, I48979, AL080126, AB048964, AF116610, AF218014, AL162006, AF166267, S78214, AF090896, AL137271, AL137556, AL137557, AF017152, AL137521, AF091084, AL137429, AF130066, AF017437, AF090943, A65340, AX046603, AK026353, AL049314, E02349, AR059958, AK026452, AB049758, AL050146, AF130110, AF207829, X63574, U72620, AL137463, AK025967, AF113699, AK026947, AX014095, AK000083, AK025092, AL117585, AF199027, AL442072, AK025484, AF116682, AL133560, AF078844, AF116691, AX019230, AL162083, AK000618, Y16645, AL137557, AL133093, AB048953, AL110196, AL133080, AK026583, A90832, AF119909, AK000647, AK027204, AJ238278, AF090903, AL050149, AL050108, AL353940, U42766, AL389935, AF113690, AK026855, AK026522, AK027213, AK027200, AF130087, AF125948, AF113676, AF138861, AF158248, A08912, U80742, AL133606, AL122123, AF061943, AL137283, AK024992, AL049466, AL049283, AK000432, AF111851, AK026741, AK000212, AB047904, AF090900, AL117457, AX006092, AX019229, AF116631, AB034701, AR038854, AK027102, Y10655, AF146568, AL080159, AF113019, X82434, AR083266, AF113677, AF118094, I09360, AF067728, AX042059, A08908, AF130054, X84990, AK000753, AF130099, AL359615, AL133568, AK000486, AL050393, AL117435, AL110222, AL133565, AL389982, AK026532, AX026824, AX026823, </p>					
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HCHBQ33	47	840756	1 - 507	15 - 521	<p>A58524, A58523, AL050277, AK026647, AK024588, AL359622, AL050024, Y11587, AK026597, AF119878, AK025906, AB050510, AK026959, AL117583, AB048954, AB048974, AK026784, AK025491, AL133075, AR079032, AL050116, AB052200, AL133016, AF030513, AF085809, AK027116, AK026534, AK000614, AF113694, AK027113, I26207, AF113689, A65341, AF065135, and AL133640.</p> <p>BF983424, BF211760, AW157053, BF684202, AW162417, AW162988, AW162603, BF026414, AW157332, BF683534, BF976126, BG032643, BG163354, AW156922, BF974967, BF975973, BF685471, BF969890, AI680129, BG249316, AW157397, BF203227, AI283030, BF97083, BG113896, BG025992, BF969919, BG027552, BF794777, BG029512, BE409260, BF965750, BF338609, BF972865, BF972470, BG106216, BF310371, AI625563, BE314799, AI499186, AW157806, BG142254, BF316903, BF343200, BG033251, AV752124, BF796091, BF315655, AU119393, AI887440, BE794493, AW276357, BF310677, BE786311, BG165212, BF969189, AA314895, BG024853, BE777933, AU126898, BF726955, BF342583, AI090099, AU126739, BG253776, AW029096, F24940, BG057843, AW118506, BG110794, AI928061, BE742652, BF727358, AW160561, BF974254, BE797276, BG059640, AW966494, BF337295, AA583793, AI475867, BF313677, BG142263, BE792984, BE019795, BG104756, BE900127, BE313100, BE732159, BE560126, BE897114, BE272977, BE275883, BE383590, BE409100, BE886687, AU149662, BE293298, BE559675, BE513645, BF037214, BE798509, BE798984, BE874485, BG032309, BF680826, D52392, BE250986, BE253387, BE313181, AA845270, BE314620, BF034696, BE793979, BE882443, BE797123, BF237943, BE736165, BE276565, AA308667, BE790613, BG056375, BE793578, BE793105, BE293961, BE278732, AW328693, BE254190, BE256721, BE909905, AW768638, BF125047, BE795518, BE255031, BE383224, BE789157, BG142170, BE907032, BE620944, BE878341, BE797140, BE276635, BG034095, BE878240, BE909385, AI913962, BE542091, AI735731, AA714332, AA316221, BE901680, BE540321, BF700921, AA524000, BF127837, AA947503, BE254299, AI126588, AW021371, BF026845, BE393303, BF038496, BE888490, AW327273, BE735597, BE561847, AI631371, BE906540, AV689462, BF211684, AW966489, AW162175, BE409686, AW966488, AI523924, AW163020, BE901983, AI766436, BE394377, BE260396, BE397339, AA912488, N54519, BE563380, AW163636, AA514900, AA088705, AI718867, BE048153, BG113893, AA506094, AA159790, BF125341, AW161303, AW769068, AA115703, AA988424, AI198534, AA112416, AA714522, AI581865, BE795020, AW163458, AA507481, AA501840, BE313575, AI469509, AI797529, AA192753, AA720655, BE563655, AI200353, BE887791, AA577162, BG142255, AW515839, AI863295, AA158148, AW161036, BE559641, AI270389, AA603073, AA989575, BF210694, AI564456, AI453217, AA846028, AI925625, BE621765, AI817585, AA515423, N76221, AV745134, AW083236, AA313883, AA187267, F24511, F27741, F26359, AA776904, AA316420, AA181237, AW615576, AA157076, AI287833, AA835523, AA493670, AA846115, AI922586, F31236, AX015385, E06004, E01533, AC007969,</p>
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HDTMK30	48	840862	1 - 518	15 - 532	AX014325, M32405, E06005, J02983, AC010180, E01535, AB005624, M19393, E06003, E01534, M33330, M33331, D11388, D10167, AC005330, AL080060, U09759, and AA074254. AI831962, BE676430, AW162549, AI017574, AI017570, AI935049, AW951729, AW070785, AW160944, AI433969, BE379169, AA316765, AI208340, BE908740, AA570273, AA308469, AA932397, AA971868, AW328383, AI302264, AA335512, AI375912, F20835, AW050941, N40545, N46592, AW438545, AI276310, N92934, R70374, AI590641, BE395213, AA873604, AI610571, AA648290, AI392906, AA629912, T94441, AI580872, AV706442, AW438488, T94528, AA906326, AA621581, AI261782, AI095210, AA910827, BE392525, BE833101, N56229, U09770, AP000358, AP000359, AC024247, U58630, and M13018.
HDPFX64	49	841088	1 - 1368	15 - 1382	BF690243, AI635310, AV705585, BF967716, AW516059, BG171153, BE379346, BG165946, BE262120, AW103919, AA586820, BE270450, AA580196, AW392940, BF689694, AA809239, AI023735, AI031575, AI038145, BF212877, AV653577, AW025039, W46346, BE727824, AW005149, N94381, AA931405, AI309211, AI341743, AW024649, AI093535, AI369772, W47346, W16578, W42813, AW945189, AV705723, BF132768, AA992145, AW675359, AA907868, AA070469, AW135787, AI300765, AA776545, AA490938, AW606545, AI025359, AV694879, W46347, BG036926, AA725448, AW750158, N66103, AI244482, AI765611, AI344462, AI680024, H05080, R42090, AV703075, AV719545, AA916199, AW386885, W42724, AA576647, AW025028, F00072, R00895, AV683358, AW581256, AV695314, AV684515, W57707, AW945190, AV691040, BE831134, AV693290, N79589, W57783, BE711900, AA362580, AA745683, AI033697, AW581255, R88810, BF132335, AW951545, AV685847, AA374786, T29875, BF903989, AV696538, D11601, AA491124, T16992, AI914576, AA305378, W31989, BF953874, BF953867, AW197238, R21561, BE140647, BF959687, BF959697, H05540, R42941, AW406968, W47450, J02888, AB050248, U07736, U07732, U07733, U07734, U07735, and U07731.
HODFG71	50	843485	1 - 2226	15 - 2240	AC019187, AF235098, AL049743, AL050335, AP001675, AC010348, AP000431, AC010283, AC005409, AC002554, and AC006992.
HCE3165	51	844534	1 - 288	15 - 302	BF380320, BF770784, BF770772, BF770765, BF770108, BG109313, BE884633, BG110701, BF770763, BF380303, BF848233, BF770117, AW753076, N94851, BE887181, AW384469, AW384552, BE771991, H21705, AI741955, AI963814, AW299769, AI917621, AI742118, R55420, H42724, AW205801, AI394684, AW360906, AW360994, AW578414, Z19511, U91329, AB014606, and AC004771.
HSAVH65	52	847355	1 - 758	15 - 772	AW080832, AI693734, BF793712, AI564525, BE869501, BF037343, AV719716, AW024144, AA523950, AW475057, BF827012, AI185475, AI197788, AI708671, AV660309, and AR062277.
HBXFT41	53	847647	1 - 989	15 - 1003	AA778868, AA679725, AA361583, BE727943, BE798065, AA626529, T19700, AA384998, AA374709, AI908896, AI908908, BE255062, AW245790, AA280060, AI114472, AV726479, AA085949, AA081907, BE269296, AV709611, BF725352, AV714707, AV706440, BE790718,

					BE296483, BE745172, AV755536, BE274694, AU119430, BE744131, AU119428, AU119550, BE746420, BE620078, BF674845, BG260326, BF665845, BE254030, BE791005, BG119741, BF037583, BE744908, BF983949, BG251764, BF571453, BE898540, BE792102, BE729491, AI908937, AI908942, AI908943, AI908935, AI908888, BE747668, BE612555, BE620616, AI908938, AI908907, BE794070, AI908939, AU142280, AI908936, AI908930, BF308923, AI908944, BF208892, BE739876, BE746956, BE792493, AU118023, BF983503, BE388929, BE866950, BF310784, BE562649, BE792512, BE729603, BE798377, BF306882, BE542411, N88908, BE732108, AV704181, BE280824, BE799494, BE733715, BF683813, BE796036, BE394532, BE787810, T70160, BF980664, T79052, BE793454, BE271512, AI908946, AV752006, BE304426, AV752905, BE259857, BE798780, BE743625, BE796415, BE279618, BE410674, BE276446, BG027214, BE784784, BE384913, BE264022, BE382420, BE383098, BG122701, BE733796, BG254133, L02426, AL356747, and AC008774.
HBMCM38	54	847821	1 - 789	15 - 803	AA665893, AL080243, AJ277546, AC005056, AC005179, AC004671, and AC016597.
HACBO42	55	849064	1 - 1701	15 - 1715	AW961071, BE703222, AI703476, W51947, AA775876, AW118126, AW419310, BF055108, AI298553, AI168160, AA976583, AA931093, AI343013, AA62237, AI056138, AA101674, T19393, BF222266, BE327125, F12518, T74004, AA825247, AI348336, BE173228, H08634, AA757564, T32177, H08635, BF061085, BF060724, BF446952, F10138, BF058335, BE502582, AW051846, AA426547, T87212, D81092, AI690133, D55877, and AB040799.
HODBF86	56	859572	1 - 913	15 - 927	AV694711, and AL049744.
HOABP90	57	859622	1 - 1239	15 - 1253	H84974, AI915939, BE396949, D51418, AA158104, D51544, AA828306, AC006387, AI2297, M31158, J05692, and M12492.
HE8UE42	58	862010	1 - 1640	15 - 1654	AL515943, AL520278, AL531137, AL515942, AL520279, AI217895, AW960744, BF970078, BF001249, BF036496, BE395420, AI983150, BE277851, AW385698, BF979048, BF688139, AW374106, BE395502, AI660124, BF541042, BF210794, BF036241, BE567389, BE778929, BF103631, BF209890, AI339010, AW374124, AA166971, BE564629, BE971080, BE276625, BF509403, AA542906, AA689356, BF695952, AI285269, AI346870, BF541205, BF030313, BF243030, N27706, AW236815, BE567683, AI821074, AI821227, BE566782, AA166818, AL134542, BF570861, BF059406, AA836112, BF130491, BF695731, D20721, BF677074, AI221030, BG118818, BF106059, AA627350, AW027663, N35710, BF674060, BF029128, BE933681, BE933586, AI221246, AI285231, AW372396, T95430, AW372395, AI699709, AL134543, AA055338, AA449417, AW197834, BF030982, R83129, AI418208, AA375954, AA450383, AW958166, AA961046, N20259, AA336834, AA226636, AI911109, AA225691, N20865, AA825421, AI932769, AA938413, AW197872, C03633, AA370379, N29162, AI620095, AA055337, BE694074, AI932771, BF697063, BE468082, AA976076, AI821821, AI173926, AA173884, BE857593, AA569611, AI821883, AA772955, AW383971, BE898721, AI921241, AJ224875, and AF271985.
HUSIJ59	59	862481	1 - 476	15 - 490	BE907643, AW327356, AV735093, BF792025, BG164383, AV756498, BG109142, BG029612,

HSSDM07	60	863515	1 - 2584	15 - 2598	<p>BG109661, AI686064, AW104310, AI524513, AV744389, AA128297, BE560561, AV757265, F36107, AI125537, H72703, AI302668, BF678743, AV682013, BE905381, AA130380, F27615, BF216773, AV712461, AA934903, N99899, BE394168, AI125542, H72704, AI796626, AA314160, AW518185, W68325, BF975221, F24460, AI832538, F30577, W68324, AI497592, AA054941, AA872295, AA070687, AW006071, AV758709, AA962230, AW274476, AA884221, AI197806, AI198400, AW005308, T79469, AA302263, AI139027, AA722653, AA594400, BE737684, AI718047, AA652237, BG008943, AI302442, AA054942, BF680026, AI245664, F25027, N63141, AA927181, BF207713, F36673, AA846168, AI660015, AA908189, D50999, AA329037, BE738658, AI589655, AI499968, AA366606, F30607, AV711850, AA515879, BF238919, BE041814, F26441, AA769698, T79560, F34346, BF214417, T97719, AA483049, BF091216, AI207479, AA302083, BF216648, W25240, T97822, BG059341, AA687617, T85228, AA492203, AW793013, AA535395, AA602796, AW238261, AA216085, F24359, T89188, AW514738, BE615484, AA649489, BF246601, AA642762, AA935966, AV743817, AA634729, AA886084, AV744110, BF239063, W55855, BF383068, AA344058, BG099692, T24567, AA062811, BE707385, BF246068, R29682, BG230802, BG231094, AW362810, AW131255, AA128316, BE567457, R31939, AF085986, AF070661, AF086763, U73629, AC004770, AC004228, AF119902, and AF137396.</p> <p>BE886761, AI520319, AW966039, BG252451, AI520320, AW375346, BE733511, BG114170, BF965742, BE559952, AW992850, AI829890, AI762105, BE788349, AI140601, AW365644, AI720778, BE740440, AW138255, AA772248, AI826338, BE502698, AA609490, BE927727, AI337251, AA971588, AW000925, AW301625, AI126519, AW673462, BF445347, BE327631, AW451288, BF111138, AI948721, R56414, AI684485, AI024528, BF111141, AA971582, AW675784, BE410672, AI363500, AW192954, AA565322, AI420978, AI263464, AW300687, BE348598, AI218550, AI369735, BE552303, R52184, W15529, AA022472, AA992460, N92817, BF091934, W31215, AI500339, AI906867, W39653, BE884207, AA255525, BE743589, BE674618, AV653705, BE618430, AA456635, AA772558, H29107, AW168493, BF026061, R56415, Z43129, BE387896, AA889111, R52092, BE811013, BE810908, BE810888, BE810898, BE810993, Z39214, BE810943, BE831903, AA322368, BE831912, BE810913, BE810939, BE810936, BF984499, T30757, AW901051, BE811016, AA364978, F02409, W04545, BE810887, BE811012, BE810873, BE810911, AI650748, BE810949, H29005, AW581134, AW581202, BE810871, AA490627, AA382734, AA256709, BE810969, AA023006, BE811003, W26238, BF529119, AW581211, AI783932, AW385906, F33591, R11750, BE963464, AA382733, W24938, C00533, BF092258, BF092249, AI122054, AI137324, and U67085.</p> <p>AI732563, AI732596, AW469418, AA132859, AA053401, AA132947, AA053416, AA131083, AA131111, AA053057, AI439525, AV756663, AA525818, AW974363, AW020094, AW021399, AI521525, AI572680, AI049999, AW020150, AI348780, AI797998, BF814446,</p>
HBCBW52	61	866444	1 - 1488	15 - 1502	

AV683406, AI926102, AI744890, AW501278, AW008217, AA584765, AI431442, AI355246, AV717475, BF834298, AU147761, AV732057, AW072963, AI061468, H60912, BF828756, AW963489, AA595661, AA669238, AW083706, AV730440, W45215, R99532, AA639155, AI887468, AI828721, AA487569, AW880986, AI251696, AI254508, AU151751, BG166172, AI925717, BG223498, AA601376, C14614, AA689351, BF983604, BE152006, AA501807, AA536040, AA084609, AI537368, BG231195, AW265449, BF876252, AA550837, AI419390, AI568260, AA074086, AI755227, AI421783, AA182577, BF949151, BG110480, AI134700, AA489390, BE245576, AA493947, AF186190, AC010458, U62293, AC007308, AC020916, Z93241, AL161670, AC008760, AC005056, AC002470, AC005080, AC005820, AL031005, AC027644, AC020913, AL136087, AL049829, AL132777, AL109797, AC000025, Z98036, AL022316, AL133211, AC005902, Z75407, AC011452, AL031602, AC005736, AC004816, Z93244, AP001435, AC026431, AL008582, AL009181, U63721, AL008726, AC010267, U15177, AC005197, AC002059, AC010150, Z84476, AC005527, AP000359, AL109897, AP000704, AL358975, AC005378, AP000008, AD000092, U96629, AP000133, AP000211, AC007238, AF130358, Z98048, AL050335, AF111168, AF001552, AC011500, AF129756, AL109801, AC005529, AL078615, AC007050, AC022516, AL049569, AC004552, AC008537, AC006556, AF254983, AC005052, AC005522, AL353701, AC011455, AL133229, AC009116, AC007057, AL035658, AC004000, AL158040, AL163201, AC010463, AC007739, AL161445, AL357374, AP001715, AL133355, AL121983, AL135744, AL096701, AC011480, AL031847, AC008264, AL050341, AC004802, AP001711, AC005523, AL049833, AF053356, AC010328, AC002091, Z95327, Z86090, AL356020, AC010618, AL360157, AL109935, AL139343, AC005089, Z93017, Z93023, AC022407, AL035407, AC005859, Z98752, AC004883, AL133163, AL359382, AL133246, L78810, AC008784, AL020997, AP001727, AC005911, AC004893, AC004476, AC002430, AC010605, AC008753, AL353653, AC005225, AC007384, AC008805, AL117338, AC004938, AC007216, AF001550, Z93015, AC002316, AC002425, AC010102, AL132657, AC024947, AL049872, AC005480, AC006274, AL031677, AD000812, AC003663, AC005586, AL117334, AC005913, AL035249, AC007919, AC003982, AC004776, AC002347, AL034379, AC005800, AC008724, Z97632, AP000688, AL049764, AL353812, AL353152, AL109952, AC011491, AL049760, AF064857, AC003098, AC007686, AC005740, AL109840, AC005919, AL356801, AC009396, AL359846, AC009238, AC003007, AL023553, AC007204, AC010223, AC010422, Z99128, AL136304, AC004808, AL021877, AL356575, AL080242, AC004491, AL096870, AC009756, AC005164, AC004099, AL023281, AC003043, AF181896, AC005696, AL121886, AL050307, AC007051, AC006125, AL021546, AC008044, AL138759, AF217403, AC006449, AC022401, AC008710, AL078591, Z99716, AL121588, AC005841, AL121872, AC009244, AP001748, AC018644, AC015971, AC008403, AC004810, AC004965, Z96074, AL121903, AC006070, AL391602, AL035667, AC004098, AC027319, AL162615, AC011508, AL139295, AC006236, AC020906, AL049776, AC008569, AC007263,				
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HOGAS18	62	867969	1 - 906	15 - 920	<p>AL049843, AC078889, AC005231, AL096840, and AC013434.</p> <p>AV759518, AW827240, AI133297, BF347791, AI932493, AW827130, AL042753, AV762395, AA483929, AW023990, BF347740, AI751216, BF337291, BG153869, AW857802, AI499588, AA846952, BE065673, AA664909, AV739452, T06754, BF679256, AI039584, AW872348, BE782280, AV755907, AL039145, AW020340, AI583283, AA633753, AV745092, AW827120, AA961035, AI471887, BF677892, AA634889, BG249643, AA458703, AW963750, AL038705, BG109996, AL119691, AV733824, AW275510, AL135377, AW512484, AV742875, AW235497, AW168618, AI538870, AW270343, AA531079, AU140328, BE297262, AI345157, AA547947, AW021735, BF437493, AA584167, AV736964, AV710066, BF816072, AA533303, AI687343, BF885142, AV733627, BF902055, AW866226, AI445674, AI732547, R86151, AW303002, AW960545, AI247199, AA661921, AV763550, AI284640, AV764307, AI536665, AI872020, AA569471, BE378770, AW021207, AW472872, AV740801, AI311927, AW149339, AW969870, R24887, AV764578, AA101689, BE252421, BE139146, H71429, BF942454, AA467932, AA639326, AA493695, BE147488, BE973754, AL046409, AI956124, BF698704, AW302903, AW084466, AV734666, AL045808, AL046156, AI568678, BF738242, AW148507, AV760378, BE164494, AI888759, BF874664, AA468022, AV760207, AI801482, AL042853, AI798266, AA533333, BF691714, AW968181, D58349, AI873990, AV762098, AV761547, BG113106, AW302013, AV738993, AI382825, BE253048, BF970654, AA632600, BE967622, BF699964, BF185578, AV730301, AA541423, BE907585, AA502104, AA309257, AV710996, AA320966, BF697673, AA490183, AA954924, AW327868, AW419237, AL048925, AV703942, AV707949, AA683238, BF792954, AW833862, BF792883, AV763354, AL044940, AI969436, BF681661, BF680084, AV763971, AL044904, AU121503, AA765736, AA650211, AA847499, BF853144, AI270117, AL049766, AB037825, X55933, AC0073316, L47228, X55929, AC006483, AL031279, U67831, AL008718, AL136980, AC005900, AL359763, X54177, M37551, AL136311, X54179, AC006930, AC023154, AL049870, U57005, AC003108, AC002310, X54181, X54175, U57008, AL080315, X75335, U18392, U18394, AB023798, AL354670, AC016939, AF109907, AC005221, AC005815, AC007881, U57006, AF038458, U18395, I51997, AC007014, AL035455, AK024741, AC007537, AC010282, AL031774, AL137019, AC003101, U07562, AC016601, AC007226, AC007907, U18391, AP000962, AC005180, AC006530, AL356414, AC004890, U57007, AL161422, AC020934, AC004150, AC025593, AL049760, AC002115, AC025447, AP001667, AC010154, AC020956, AP000472, AC007298, AL445225, AP000307, AL391119, X55926, AC008960, AF015151, AL355094, AL022163, AC006226, AC023275, AC006211, AL157776, AC007671, AC004977, AC005527, AC010789, AC007383, U57004, AC009244, AL031281, AP001683, AC035150, AL162377, U18393, AC007546, AL121886, AC005517, AC034246, AL050318, AC025434, AL135927, AC007227, AL031847, AC008033, AP000088, AC004802, AL122001, AC020904, AC008733, AP000550, AC015651, AL096840, Z83733,</p>
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					AL096861, AC006965, AC010271, Z93023, AL135785, M89651, X68500, AC009226, AC004381, AK026037, AC010643, AC012351, AC005146, AC024168, AC010102, AC004634, AC005944, AP000961, AL162872, AC005406, AC017019, AL049749, AP001054, AC002468, AC005046, AP001820, AL022238, AL161665, AC010170, D83989, AL022725, AL023494, X12919, AF064859, AC011548, AL035587, AC078842, AC022542, AK024096, AL031846, AL356299, AL049796, AL157760, AL159152, AC006254, AC004631, AC004712, AL135928, AB051144, AL356280, AC005179, AC016543, U57009, AL117347, AC016025, AC005015, U18387, AC005212, AL161731, AP001694, Z83822, AC004263, AL109965, AL138759, AL133276, AL049758, AC026723, AL110292, AC006037, AL136295, AL137786, AC011484, AL079303, AC007051, AL157951, U62317, AL022721, AL135786, AC011738, AC005004, AL136223, X76070, X55927, AC005261, AC007919, Z86062, AC004990, AC007749, X53550, Z83818, AL049712, AP000280, AC002119, AP000553, Z83826, AC012068, AC005881, AL008728, AL109840, Z98200, AL109976, AC023105, AC005535, AC022493, AC005771, AL138688, AP001598, AC008664, AL354834, AL353701, AF064858, AL031289, AC008521, AC008267, AF010238, AC006050, AC008745, AB012176, AC005747, Z71187, AL162615, AL023882, AC007666, AL138717, AK021821, U67801, AC012055, AP001415, AC004230, AC018662, and AL157756.
HHS DL18	63	869701	1 - 1374	15 - 1388	AA812573, AL518998, AW972473, W73306, AL522221, AI809692, AA513449, BE501387, AI148527, AW452872, AW245994, AA954445, H57889, AW183378, BE872438, AA813225, AI619978, BE794663, AW197888, BF088329, R24069, BF209308, W73041, BE502424, R24121, R26598, AW245458, AI929294, AA249846, AK024151, AL121754, AC008155, AC025593, AC004690, AC083870, AC005011, AL121897, and AL022238.
HTFMS34	64	870486	1 - 447	15 - 461	AW402328, AA354692, AA724612, AV758954, AV744331, AA158742, AI768253, AA353944, AW001224, AI857605, AU156990, AI830105, AA987516, AA588890, AW979250, AW979200, AW974813, AW969719, AW979221, AW975126, AW979156, AW970932, AW973116, AW975987, AW973183, AW975409, AW979220, AW979219, AW973808, AW970064, AW979284, AW974983, AW972802, AW970030, AW975427, AW971985, AW979197, AW975951, AW975012, AW971097, AU137027, AW974802, AW971070, AW970564, AW973136, AW970877, AW975928, AW974987, AW969682, AW973771, AW972762, AW973103, AW971963, AW979145, AW972699, AW975070, AW973217, AW973814, AW972417, AW979140, AW971068, AW976019, AW971949, AW976008, AW969751, AW975656, AW975004, AW979228, AW979194, AW969753, AW970875, AW970921, AW969735, AK024342, AL121928, AL050035, AL135904, AC004889, AL136137, AC009060, AC006480, AC005587, AC010605, AC005783, and AC005696.
HLD OG81	65	874506	1 - 1220	15 - 1234	AL521118, AW339982, AI827788, AI627750, AW575122, AL531441, BF967087, AL038656, AI888509, AW156877, AI094580, BE349949, AI963436, AI634293, AI891103, AW080820, AA910949, AW009916, AW338663, AL525766, AA514770, AL037705, AI924086, AI951034,

HTXQF81	66	874608	1 - 1226	15 - 1240	<p>AI025380, AU151967, AL038657, AW778781, AI703238, N47212, AI688623, AI091742, N57407, AW188387, N32312, AW469366, AA860531, AW518859, AA863007, AA532789, AW188451, N66542, AI306506, W32410, AW188660, BE223067, AA601517, AI304931, AW338673, AA912494, C75275, AI050054, AI075117, W15332, W32856, AW084306, AV730060, AW081448, AA889232, AI302660, AA902855, AI888343, BE931227, AA507932, AA987475, W39423, AA938584, AA974132, W37293, F34503, AI621117, N27606, AW613309, N90139, AA987821, AA916382, AI299905, AA953919, AL525715, AI282708, AI473985, AI803426, AW591292, AW028183, AA825320, AW173786, AW338830, AI921646, AW157842, AA854048, AA910245, AA855143, R39105, AA989409, T28851, W37827, R63566, AW178890, AI673106, C75395, AA887708, BG108610, AA885915, AL526138, HI9457, AI273149, AA911486, AW473237, AW265368, H42573, BF694671, AI457300, R63520, AA772638, AI824046, AW194001, AA548768, T11298, BE463489, AA813624, N91931, BF672787, AI811441, AI476381, BE828334, AW080982, AL525923, C75171, C01891, BG150929, AL521119, AA084007, AI554233, BF377199, AW884756, AA384963, F29838, BF797072, BF792586, BF971016, BF968453, BG106145, BF343702, BG168468, BG252929, BF983875, BG105758, BG261260, BG166291, BG249591, BG032919, BG030548, BF337945, BF969798, BG105318, BG104735, BG036520, BE782626, BG180793, BF793872, BF344164, BF525514, BG250790, BF795712, BG255388, BG260963, BF796661, BF969317, BF796402, BF969185, BG167415, BG259435, BG179486, BG113712, BG163646, BG111916, AL042009, BG180295, BF792054, AL039390, BG179586, BG111590, BG036465, BF968622, BG251851, BG165260, BG164495, BG108452, BG035330, BG164183, BG029194, BF797998, BG249858, BF980532, BF527274, BG027631, BG181100, BG169376, BG028019, BG166490, BG111100, BG171463, BG110518, BF797137, BG180200, BG164994, BG105848, BG259612, BF342312, BG250744, BG179183, BG170847, BG251076, BF527413, BE965842, AL046681, BF968504, BF345161, BG114865, BG259362, BG253110, BG252354, BG167751, BF345716, BG122277, BF526001, BG178669, BF794212, BF341270, AL046137, BG030750, BG024457, AL031726, M25160, AF153191, X03747, U16799, AF202048, AF202049, M25159, X03883, X61433, J02701, Z99758, M75030, Z11797, U17061, and J02787.</p> <p>BE735657, BE794634, AI346435, BE794294, BF035725, BE540828, BE736917, BF971130, BE874911, BE875498, BG163362, BE619340, BE543544, AV708235, AI813687, BG168124, BG029001, BF310923, AV703089, BE546820, AI523881, BF034887, AI246030, BE515214, BE789330, AI565163, BG178201, AA402794, BE784412, BG169860, BE878355, BE393961, BG025146, BE880077, BE874897, BE790171, BE786644, AA477593, BF968299, BE259495, BG180371, AA161137, BE394326, BF130503, AI394235, AI814324, AW328354, BF978913, BE909230, AA873099, BF093785, AA887676, AW752983, AA622341, BE048130, BE266971, AA161115, BE909193, AW386295, BE870857, AI280907, AA421577, AA552244, AA574027, AA453330, AI523581, AA826619, BF677836, BF030389, AA464842, BE620003, AA766218,</p>
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HCRNG90	67	874787	1 - 1061	15 - 1075	BE891902, AW271686, BE677446, AW025554, AI420969, AL521237, BE879239, AI202304, AA375089, BE245380, BE246652, BE547456, AA337142, BE879198, BF218778, X55740, D14541, J05214, L12059, and U21730.
HPWCL64	68	874891	1 - 653	15 - 667	AA531009, BF114862, BE645201, AI803060, BE746455, BF111457, AW058661, BG060155, AW957837, AI871128, AI040865, AI635619, AA279688, AA314121, AA291325, BE044274, AI300358, AI026031, AW136587, N48589, AI333491, AI217438, AA872204, AA313681, BG149853, AA761900, AA825668, N62189, AI742355, AI167192, AA782249, AI472224, AI027048, AA969624, AW957912, AW505197, AA907863, AW576584, AA279718, AA489085, AI356298, AA496950, AA490549, R81199, AI915658, AW500237, AW242542, BF109353, AA489150, H41907, F09870, AU126430, AV726684, BF061082, AI809172,

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HWLMV62	69	874930	1 - 595	15 - 609	AI718277, AI806204, AI922705, AA134958, AW189584, BE940626, AW152541, BF436606, AW589567, AW779876, AA911194, AA099689, H26598, AI523349, AI783469, C06405, AW979187, AA856931, AW050657, AW580584, AA650629, AA075317, AW993789, AI535926, AF093844, AC007750, and I50896.
H2MAC06	70	874931	1 - 946	15 - 960	AA837575, AI750047, AI762213, AW778875, AA528093, BF594424, AW517424, AW612993, AI749649, AA514773, AA514789, AA421943, AA167440, AI708618, AA400973, AV740396, AI474120, AA514874, AI283967, AV738755, AW845024, AA587027, AV738776, AA167783, AV738660, AA642930, BF879539, AA878029, AW193324, AA857522, AI284506, AA164459, AA164458, AV741975, AW583341, AA838234, AA169874, AV739857, W38398, AW276087, AW264913, AA148194, AA308126, AA169614, AI669077, AA074902, AA148193, AW583781, BF893727, AA079651, BF802476, AW190644, AI306666, AV735674, AV735675, AA167439, AA857853, AA074845, AI199258, AA535642, AI826800, AA166792, AA074727, BF893886, AA421944, AA165663, AA075896, AW751341, BF875085, BF765758, AW265060, AW845005, AA076140, AV739168, BF879359, AW591737, BF748440, BF898643, AI626104, AA076188, AI541032, AA837890, N27757, AA102361, BF903121, AV741814, AA165649, AA100735, BF895363, BF892331, AA524360, AI833071, BF748145, AV741817, AA079557, AA593897, AI680515, AA573267, AA401137, AI675895, AA506601, BE696957, BF893703, AV743848, AW272215, BF354583, AA076566, BE004062, BE183618, AV740205, AA837854, BF334915, AA515574, N79823, BF894855, AA169569, AW364597, U47734, AA173827, BF094310, AW664712, BE184103, BE171567, BF354577, BF805800, BG057623, AW150580, BF918052, BE811764, AA299459, BF893822, AA298668, AI810491, BF893729, BE140374, AA076565, BF894873, AI940001, AW062899, BE004010, BF801920, AW062852, AW062884, AW475086, AA366738, BE171661, BF893097, AI797418, AV737676, BE645920, AA298242, BE183717, AI939989, AW352267, BF893885, BE716617, BE859013, AA503624, BF893856, BF894876, AW062699, AI559933, AI749194, AI866124, AA172395, BF900257, AI697412, AI473481, AA502597, AA329732, BF896945, AW270590, AW778853, AW969360, BE711057, AW000856, AA471032, AA494293, AI695633,

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HWLRF06	71	875093	1 - 371	15 - 385	AW841682, BF766770, and D63997.
HODDO41	72	875352	1 - 583	15 - 597	H69413, H69440, AL120745, AA830102, BF898213, AW340795, AI457813, AC007546, AF064604, and AF155103.
HCHMQ74	73	875371	1 - 426	15 - 440	AA305616, AW861809, AW001611, AK023741, AC006057, and AK001527.
HT3A155	74	875682	1 - 1467	15 - 1481	AL523414, BE565623, AW955610, AL523413, AI088910, AW469112, AW043896, AA005100, AA262517, AI470354, W78980, R89654, AV750391, AA261819, BF447445, AI079770, AA037517, BF834666, BF834676, BF834677, BF834554, BF834667, AA328236, BF836570, AI584124, BF836573, BF836554, BF836568, BF834674, BF836564, BF836558, H19672, BF748075, BF751207, AI247711, AI217267, AV747710, AK025671, AK000219, AL121782, AB034617, and AL121754.
HMVBD68	75	876052	1 - 1266	15 - 1280	BE885169, AW970061, BF439457, AW575699, AW468388, BG116413, BG170032, AW083378, AA057509, AI679190, AV727466, AA574451, AA599718, AA054285, AA706513, AI707934, AW023524, BE142955, R66161, AA199863, AA862725, R84843, BF247952, R85715, AW973101, AW975244, AW979090, H86142, AW975971, AW627831, AL038837, H86028, AW979076, AL039074, AW975143, AW971975, AW975166, AL039564, AL039108, AW972154, AL039156, AW979228, AL039085, AW969930, AL039659, AW979176, AW975941, AL039625, AL039648, AL039678, AW973762, AL039150, AW975022, AW971953, AA059178, AL037051, AL036725, AW975626, AL039629, AW971954, H00069, AW974379, AL039109, AW973821, AW975981, AW972296, AL038531, AL039128, AW969748, AW970540, AW970969, AW979212, AW979147, AW976024, AW971968, AW969885, AW973789, AL040992, AL045337, AL037726, AW970587, AW975434, AW975650, AL042909, AL039423, AW979204, AW973772, AW975596, AW969694, AW971326, AA013394, AW971403, AW968147, AW972440, AL039410, AW970942, AW969798, AL134524, AL039538, AW973254, AW979037, AL044530, AL045353, AL036973, AW968338, AW975058, AW973812, AL044407, AW971404,

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HOCTA74	76	876487	1 - 671	15 - 685	AI302800, BF109314, AW118693, AI808667, AI065036, AW080952, AA862461, AI201847, AI138543, AI015998, AA865819, AA470462, AA454546, AI221895, AA481881, AI039771, AA535254, AA482063, AI301489, AA551867, AI018725, AI121442, AI244932, T88913, AI914566, AI017732, AI016693, AI833052, AA608575, AA120921, AA120922, AU149626, AV720099, AW510983, N57711, BE302246, AW151576, AI572464, BE328214, AI471156, BF769730, AW473129, R85699, H60433, AA890675, AI262997, AA620388, AV719431, T47276, AA534566, AI625454, AA852619, AA889211, AW631306, AA707578, AI718799, T47275, AI124998, AA477467, H88225, AA680222, H66348, N63309, AA131070, AA131015, AW627418, AI474581, AI561334, BE936086, AV733805, BE936002, BF092360, AW861944, AW804686, AW604723, AW392670, BE695785, AW877209, Z99396, AW372827, BF868697, BE705905, AW858526, AW858525, BE705903, BE705906, BF868687, AW577135, AW384394, AW861889, AW858455, AW861954, BF868684, AW363220, AL119497, AL134528, AL119443, U46341, AW604726, AL119457, AL119319, AL119363, AL119341, AL119496, AL119324, BE705904, AL119355, AL119483, AL119484, AL119391, AL042965, AL119335, U46350, AL134920, AL119522, AL119396, U46351, U46349, AL119418, U46347, AL119444, U46346, AL037205, BF868696, AL134902, AW979212, AL042614, AW971745, AW975037, AL119439, AL042975, AW969885, AW979204, AL119399, AL042551, AW971387, AW973770, AL119401, U46345, AW973185, AL134518, AL134524, AL043029, AI142132, AL136526, S79219, X14608, M22631, M26121, AL122056, A81671, AR066494, AR060234, AJ279014, AX046357, AR054110, AB026436, AJ251859, AX030435, and AR069079.
HISET05	77	876686	1 - 912	15 - 926	AI392987, AW204721, AI380500, AI887979, AW166458, AI935193, AI739272, AI393078, AI337398, BE908889, AI262967, AA621187, AW780031, BF002042, AI002949, AA622165, AI078264, AA080959, AW370639, BF001449, BF982414, AA082985, BF001683, AI857378,

HCRQM22	78	876696	1 - 433	15 - 447	AI812113, AW439180, BF818644, BF002657, AA449424, AA514476, AI262637, AI051534, AI374677, AA442087, AA425339, AA594240, AA416576, AA527340, AF287967, AJ270993, X58431, X56459, J03782, U15407, and AF012098. BE544606, BF529981, BE786721, BE251508, BE258319, AW794597, BE255394, BE890405, AL525853, BF757575, AW403014, AI904490, BE747560, BE535798, BE546101, BG028773, BG023780, AI831848, AI15313, AI761315, BE885000, BF808237, BE537206, BE535666, BE535661, BE389956, BE540274, L16783, U74613, U83113, AR030545, A79030, U74612, and AC005841.
HLHTC92	79	877310	1 - 839	15 - 853	R66025, R76969, AW043721, BF109415, AU122689, BF589412, AA553904, AW973590, BE182756, AI417134, R38054, U77970, AR059959, U51625, U77969, and AR059960.
H2CAA49	80	879484	1 - 2296	15 - 2310	AL518281, AI279876, AU123950, AL517520, BE738492, AU122239, AI539769, BE614356, AU127471, AU137119, BE782437, BF032266, AW954410, BF917448, BG114466, BG025422, BG258893, BF793578, BF695505, AA876127, BE535422, AI963800, AA206425, AI969470, AU123404, AL517519, BE884471, BF210187, BF978343, BG258084, BE044090, AU129257, BE079257, AU150519, BG035397, BF696016, AI951966, AW605343, AA459503, AW609270, AV726771, BF576773, BF910792, AW582085, AU123236, AA778294, AW582079, BE546929, BE565375, BG171787, BF939707, AA639198, AU153689, AW609318, BF375096, AA446426, BF094456, AU149119, AI334209, BF081392, BF978405, AU124260, AU119230, BF375101, AW582064, AW813451, AU150709, BF375184, AU159355, BF977470, AW813456, AU152457, AU151017, AU151416, AI150191, BF213914, AU158145, BF573572, AW609320, AI281280, AW149760, BF375091, BF819052, AA446118, AA459274, AA236997, AW609271, AI587101, BF212914, BF243356, AW609290, AW609276, AW662423, AA946837, AI922323, AI198839, AW813453, BE960873, AA568602, AA777025, BF380050, AW376909, BE910222, BF375112, AW582063, AI127770, AW582101, AI139373, AW813471, AW972374, AW609285, BF375104, AU152034, AI753243, AA789258, N95643, AI754062, AW582102, AU150043, AA236574, AI140786, AU145626, AW813461, C75603, AA075484, BE395097, AA251521, BF970745, BE090595, AA587266, BG121171, BE042577, AW609317, AU148699, AW439362, BE546818, BF375089, AI121103, AU154945, AA213367, AW609263, BF375081, AW609294, AA837311, AU123797, AW582067, BF932351, AU156384, AW609291, AI187231, AA227539, BF132102, AI344110, H67810, BF375080, AV723252, BE782617, AA075621, BE834271, AW609293, W95535, AI400951, T65536, AW609280, AA872668, AI192986, AW571539, AU134775, C17463, BE566077, AW970128, AI859211, AA470471, AW609423, BE871406, T17222, AW192135, AA506763, BF248125, AW139044, AI913866, AA192466, AA165156, AI826398, AA678954, AI271344, BE090601, AA113939, C05669, AA137249, H17790, F11801, BF825064, AA164768, C75565, R89384, T16445, T69722, N66040, C18698, H59003, AA503343, AU123857, AA339152, AI025443, D81644, AW582082, R78076, BF222253, H58956, BF818865, D60375, BE094097, F06655,

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HETKQ94	81	880545	1 - 2418	15 - 2432	BF205433, BG025867, BF206942, BE867291, AI814360, AW665404, AW247024, AA971547, AW250225, BF701516, AA781889, AI932216, BE858661, AI144206, AI146546, AA436490, AI494424, AI951048, AI123552, BF185575, AA436445, N25312, BF092058, BE465537, BF931581, AI286226, AI005130, BE719412, BF336730, AF121170, BE931962, T20250, AA464700, AA463999, AW814610, R61444, AI911401, R11114, AA515534, AI680399, BF436747, T20249, BF821425, AI382750, AI580715, AW440012, AI569246, BE645712, AL043113, BF876211, BF846186, T91232, AI240523, BF247639, T86015, N71736, AA770594, AI350837, AI908616, BF820057, AI610364, BF435992, R61399, AI394618, N397115, AA996341, BE173985, AI224483, AA215637, AK025530, and AK025445.
HOFMO23	82	882466	1 - 730	15 - 744	AL525975, AL525520, BE263255, BE144775, BG163687, AA340612, AA375347, AA375265, BE880915, BE880848, AF089745, and AC083863.
HNTNP58	83	882787	1 - 2826	15 - 2840	AI829734, AI073471, AA884114, BF983127, AA507637, H59240, AI263494, AI288403, AL121978, Z93023, AC010677, AL035070, Z82190, AC005154, AC003101, AC004883, AP001697, AC004584, Z94721, AC025593, AC005030, AL121601, AP000010, AP001432, AL163303, AP000151, AC007842, AC006483, AC008050, AC007226, L78810, AC006203, AP001728, AL031281, AC016526, AC005011, AL121777, AC005696, AC002073, AC011894, AL049758, AC004967, AC007731, AC005500, AC008155, AC007685, AC005730, AC018637, AC004983, AL121585, AC002404, AL035455, AP002026, AC007050, AL163201, AC005520, and AA913363.
HOFNY28	84	888480	1 - 1605	15 - 1619	BG258222, BG117025, BG168645, BG253641, BG168646, BG167818, BG025417, BG164284, BE612896, BG252223, BE910738, BF345060, BE621811, BE621893, BF984267, BF798053, BG123011, BF984992, BG031014, BG117026, BG117030, BE621810, BG168644, BE614378, T29199, AA362689, AA362688, AA362690, BG253645, BE613101, AW968355, AW972092, AW968356, AW972093, AW968729, AW971740, AW972091, AI432644, AL045327, AI623302, AL134524, AI432653, AW969229, AI432654, AW081103, AI431328, AW972090, AI432677, BE672759, AL044652, AI431230, AW858522, AI431353, AI431312, AI432655, AI431310, AI432650, AR080280, A49045, I66487, A94048, AR035224, I66498, AR070554, AX002278, AR071324, I09252, I09251, I07209, I07249, AX042374, AX033488,

HE8MQ01	85	889128	1 - 2694	15 - 2708	<p>AX033489, I09270, AX033490, I09268, I09269, AR068508, AR068510, AR067734, AR068509, A63954, AX042377, AX033474, AX035427, AR089207, AR089206, A49701, AX035430, AX033486, AR089208, AX033487, AR089205, AR067731, A29109, A32111, I66495, AR068550, A23373, AR068551, AX042373, I66494, AR067732, AR085090, E01324, I08638, A94046, A94054, AX030436, I58322, I58323, I66497, I66496, I66486, A27169, A27170, A39929, A83151, I09267, AR038307, AR038321, AX030435, AR091571, Y17793, AR051524, AR051537, AR051528, AR051547, AR091393, AX042376, AX042375, A42964, AF064854, AF019249, AR071207, AL133074, AL133049, AL133053, AL133076, AL122101, and AL133068.</p> <p>AI866939, AA338997, AA332893, AL079734, BG056174, AI783911, AI114733, AI133552, AI912401, BE048032, AA515728, AV738383, AW963444, A1056177, AA228778, BF312862, AI620585, AA297666, AA535216, AA837035, BF928469, AV656851, BF891210, BF768846, AW798093, AA581247, AA659608, AA847031, AI439910, BF805088, AA452887, AA827771, AA410788, AA310183, BE350261, AW675551, AA714110, AU147162, AJ744830, BG250286, H85792, AA651632, AI580250, BE968744, AA513551, AL119921, AI634187, AL038936, BF808097, AW515437, AA728937, AA610433, BF870792, AW338179, AA583394, AW069227, AW303142, AA654778, AA582073, AA527209, BG008041, AA804925, AI457389, AI176972, F11718, AV760723, AA621381, AI733856, AA489806, AV759115, AA464739, AL118925, AC004112, AL161445, Z97196, AL035587, AF116689, AC003093, AC005098, AC004166, AC007371, AC008812, AC004867, AL122058, AC004882, Z97876, AL133320, AC007568, Z95703, AL096840, Z83844, AC004985, U72787, AC004850, AL355386, AL121881, Z85987, AC003007, AC004884, AD000685, AL023575, AC009060, AL445605, AC022436, AC009289, AC007999, AL008723, AC002369, AL033521, AC006578, AL079333, AC003695, AL022315, AC005081, AC002477, AL161731, Z83308, AC004475, AL031177, AC004585, AC083861, AL008627, AL117337, L35676, AC020908, U91323, AF084941, AL162293, Z70280, U82668, AC006271, AC005632, AC007787, AL035495, AC008685, AC005736, AL049548, AC005318, AC002091, AC007030, AC004638, AF039904, AC018663, AL109921, AF129756, AC002554, AL031117, AF030453, AC010271, Z82174, AL138733, U07562, AC073593, AC002468, AL162615, AC016025, AL136173, AL159168, AP002028, AL031683, AC005189, AC005190, AC007435, AL033517, AC006236, AC005050, AC009087, AP000505, AP000295, U95739, AL031727, AC005295, AL035406, AL022163, AC004089, AL353653, AC007057, AJ295844, AL137802, AC009480, AC009086, AC005821, AC004520, AC002511, AL035697, AL445220, AL391595, AC007308, AF000044, AP000112, AC004841, AC004755, AP001630, AC008560, AL109613, AC006329, AC003043, AC005225, AC008736, AC011235, AL096800, AL354762, AC006241, AC005102, AC004491, AC011489, AL031447, AC006581, AC009318, AL133387, AL162272, AC010618, AL158040, AL034417, AC011475, AC005781, AL136527, AC005015, AL023577, AC026770, AC005180,</p>
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HE2RG21	86	891139	1 - 832	15 - 846	<p>AC006511, AF205588, Z97181, AC011464, Y14768, AL138741, AC004815, AC087225, AC024085, AL117382, AJ277546, AC005243, AC006057, AC011559, AC011490, AL049760, AF001550, AC007151, AC007216, AC006457, AC078899, AL133257, AL442167, AC005722, AL031680, AP000215, AL031657, AC002470, AC005921, AC003076, AC005011, AC007389, AC005184, AP001610, AL033361, AC008403, AP001748, AC004453, AL139120, AC006317, AL031733, AL139396, AP000353, AC005206, AC006210, Z93015, AP000297, Z82201, X60459, AC004232, AF181449, AL049856, AL022343, Z97989, AC005227, AC004974, AC016816, AC005071, AC007163, AL031131, AC006952, Z83838, AL049830, AP001666, AL024498, AC005667, AL031668, AL121897, AC027279, AC004975, and AL080314.</p> <p>BF969593, BF976282, BG109289, BF976463, AU125091, AU125476, BE792892, BE792650, AU125886, BE791092, AI133074, BE791337, BF237924, AL135290, BG177271, AV713476, BF797802, BE731259, BE795223, BF968456, BE790661, BE797404, BG171110, BE874660, BE795846, BE794082, BE902740, BF237469, BE562478, AV698481, BG164853, BE795417, BF342550, BE615419, BE798620, AI708767, BE795905, BE798940, BE793434, AU122903, AU123246, BE794023, BF971150, BE792929, BE792297, BE891943, BE796110, BE879535, BF308478, BE615080, BG254834, BE791517, BF689007, AV717421, BE797453, BE378673, BE797539, BG109767, BE790876, BE727304, AV713597, BE727438, BE974511, AV649335, BE879514, BG251837, BE733589, BE731394, BE796376, BE791222, BE907281, BG177300, BE790687, BF970844, BE790875, BE794823, BE795711, AU135821, BE745525, BE300363, BF027468, BG036177, BF308214, BE740779, BE797101, BE790755, BE906835, BE729432, BF314422, BE797254, BE300171, BF663788, BE790654, BE905832, BE791406, BE793973, BG113000, BF207077, BE784397, BG251054, BG025163, BF976215, BG168188, BF973995, BE794572, BE796652, BE796227, BE906382, BF026819, BE873279, BF686061, BF304948, BG165563, BE747673, BE728347, AI818928, BE379082, BE799031, BE879033, AV727362, BE274714, BG121915, BE386257, BE312750, BG107819, BE906182, BE386742, BF308232, BG254508, BE740218, BE792160, BE273381, BE569043, BF688618, BE274774, BE731375, BE889671, BE889607, BE791069, BF969938, BE727488, BF973670, BE744048, BE905712, BE561555, BE795983, BG032341, BF970016, BF980933, BG167418, BE275784, BF034308, BF983251, BE910496, BE560745, AI985637, BF684036, BE733167, BE793690, BE260585, AV688740, BE275014, BF970622, BG253952, BF796209, BE728591, BE276098, BE260683, BF312638, BF310331, BF795019, BE794960, BE729399, BF306538, BG109917, BF664113, BE746075, AW327358, BF026012, BF034507, BE794196, BE619444, BE378927, BG029118, BE890966, AW409953, BE793206, BE795584, BF025737, BE274916, BG178912, BF689288, BF315718, BF309544, BE872571, BE875649, BG178795, BE738312, BF680070, BF685685, BE275143, BE797323, BF206155, BG177739, BG116134, BE746340, BF792526, BE876133, BF970542, BE249941, BE907925, BE796038, BE276137, BF975039, BE867742, BF973384, AF074628, BE796201, BE897798, BE380156, BE560786, BF691285, BF690366, BE727901,</p>
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HHENW77	87	894855	1 - 1761	15 - 1775	<p>AI200612, AI219591, AI240579, AI636400, AI521639, AI669365, AI610264, AI632812, and AI633187.</p> <p>AL526926, AL527436, AL526045, AL538507, AL520776, AL538372, AL535254, AL538508, AL527469, AL526103, AL536877, AL520777, AL526963, AL536876, AL525006, AL525994, BF340116, BG259955, BG118411, AL526046, AI884867, BG120508, BF530356, BF727008, BE58461, AL525005, AI885227, BE645596, AI341159, BF971037, AW954547, AI935218, AI922406, AA778161, AI687121, BF835950, BF835954, AW148695, AW195853, BE874135, AI336147, AI091364, BE162509, BF345973, AI769203, AW627859, BF439954, AI358396, AA283686, BE677432, AA932022, BE882539, AA812396, BE222881, AI880226, AW016109, W22821, AA349833, AI207239, BF528099, T77194, AA351716, AW802143, AW802146, W22566, AA349483, AW952324, AI935916, AA912295, AA323718, AA513643, BG236769, AI191844, BE044376, F10141, T24055, AA323421, T74074, AA860955, T87227, AI160164, AA916795, H43568, AI432797, F12523, AA323203, AI522051, AI869229, T15481, AL040209, BF834531, T24054, AI089847, BF527264, AI688419, BF475921, BE867108, BF945188, AI419193, BF957667, BF811179, AA290708, AA976981, BF811672, AA350458, AW895092, AI953159, AA911413, BG059278, BG230864, AA528216, BG166654, AI432030, AW079432, BE540578, AW161579, BG030405, AI582932, AW132056, AW827206, AA580663, AW161202, AW020397, BF342823, AW806761, AW075382, AI866090, AV682190, AW935969, BE069307, F26535, BE011880, BE879722, BE772508, AI270183, AL037030, AW084056, BE895765, BE964994, AL120056, BF814450, AW264895, BE906419, AW834302, AL513813, BF811808, BF812459, AW020095, AI494201, AV682724, R39444, AI635492, AL513699, AI673278, BG113188, AI473536, AI624293, BE965724, BF856052, X69392, I89947, I48978, AL359615, AR020905, AL049283, AL137478, AK026649, AK026744, A08916, A08910, A08909, AF116631, AF100781, AL133080, AK026629, AB051158, AL137560, U75932, AF036268, AF031147, AK027213, A08913, AL117394, AL110159, AL035458, AK024538, AF260566, AK026855, AB029065, AK026534, AB034701, AK026506, AL110224, AJ006417, AB049892, AK000432, AF119871, AK026462, AF116644, AF069506, I48979, AL137550, AL080140, X93495, X82434, AF175903, AF067728, AX042059, AF111849, AX046842, AF130082, AF146568, Y10655, I89931, AK027096, I26207, AK026480, AK026630, AF087943, AF218014, AF225424, AK025084, AF076633, AK000083, AF026124, U87620, AF130099, AK026434, AK000323, AR034821, AL389935, AL389982, Z97214, X72889, AL162002, AR087170, A08908, I33392, AK000137, U68233, I92592, AK025015, AK026647, AL133077, AI2297, AL162004, AF091084, AL137556, AK025339, AL137271, AF079763, AJ242859, AF116654, AF090903, AK025484, AR038854, AF118094, AK026528, AL162006, AL137554, AK000435, AL117457, AF125948, AX006092, AF113699, AB050510, AF056191, AL137479, AK026532, AL133560, AL050277, AF003737, AF100931, X79812, AL390154, AF119865, AX005848, AX005804, AF217987, AK026526,</p>
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HOFNU55	88	897344	1 - 691	15 - 705		

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HE8TE40	89	897862	1 - 1862	15 - 1876	<p>A12297, AL122110, AF116610, AF119871, AB052200, A03736, AC002464, AF118094, AF130087, S61953, AK024524, A08909, X65873, AL137648, AK026528, AL133113, Z82022, and AF183393.</p> <p>AI823654, AI961177, AI478221, AW968773, AA846576, AI480402, AA584298, BE560551, AI813657, AI760644, AW247012, AA887179, AA868607, BF980116, BE961977, BE550998, AW969507, BE559619, AI651566, AA579655, AV686107, AW969502, BF436325, AW002182, AI654813, AA491041, AI283079, BE617461, AA922926, AW166079, AA917731, BF515827, AW292126, BF223222, AI990156, AI499865, AA729880, AW250215, AI671762, AI680670, AI948722, AA490858, AA503731, AA732307, AW969802, AI222519, AI004530, AA639529, BF798411, W96184, AA513845, AL532268, AI681727, AA768695, BE765188, AI147101, AI205178, AI269686, AW291809, AI393299, AA737590, AA528328, BE065291, AA764868, AI867123, BF095791, BF821814, BF380983, BE151798, BF380986, AV654488, BF909261, BF909264, AW969515, AA809950, AW269244, AW300193, BE693372, AA689267, BF590473, AI694125, BE962424, AW955686, AW954735, AV703593, AV726916, AV661866, AW951516, AI557264, AV696302, AV706064, AV701983, AV707103, AV705545, AV702726, C15737, AV702189, AV725294, AV702148, AV709895, C14208, AV726708, AV655824, AV705217, AW963940, AW950675, AW954772, AK026201, U19181, AC025263, S79539, and A84916.</p>
HNTCH73	90	900546	1 - 1555	15 - 1569	<p>BE877424, BE612406, BE867398, BE873237, BE512843, BF983505, BF984185, BE304524, BE871951, BF983498, BE962323, BG248621, BF984535, BE870587, BE872539, BG108575, BE873272, BG026835, BE868837, BF434094, AW362700, AA777371, AA479141, BE512742, D51188, AA479140, BE740078, BE869477, AA468551, BE304763, AA463224, BG248254, AA576646, BE617281, AI312731, AA584413, AI886718, BF982469, BF928257, BF928454, AA873550, AW753810, BF806796, BE771212, BE771215, AW362728, AA463225, AW362712, BF819079, BF810890, AA730073, T54230, AW602572, AA333903, AA358807, D51376, AW753502, T28171, T54134, AW950374, AW362081, BF926988, AI129853, AW609632, AW378785, AW390826, N86263, AW390848, AW815472, AW379982, AW379983, AW884062, AW815758, BE771216, AW815719, AW264254, D11692, AW378783, AI748892, BE868305, AI034316, AW191034, AI219728, AW148594, AW389490, F04809, BF768876, AR031483, I08631, I78457, AR075479, D30751, I11746, AR075485, U43842, AF042497, AF136233, Z22607, X56848, S65032, E04737, L47480, D14814, E03671, AJ005076, AF058764, X64538, D49972, U90122, U82231, AF056336, AR009509, AR048315, AR075484, and A91867.</p>
HHFBY53	91	902534	1 - 956	15 - 970	<p>AA346699, BE897269, BG109478, BG178294, AV718692, AV723772, AV708119, BF883916, BG179993, AI370129, BG108324, AV755207, BE047863, AL514935, AI349772, AI500077, AL513643, AI436456, AL036396, AI687376, AL047042, BF343172, BF037097, AV655645, AL119049, AL036802, AV681857, AW827211, AL514627, AW827203, BG036846,</p>

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HDPIE44	92	904763	1 - 4006	15 - 4020	<p>AL528314, AU130887, BE780963, BF966718, AL118570, BE739397, AU126476, AU139315, BF512830, BG115027, AI908306, BE880693, BF540985, BF791388, AU122664, BF035925, BF665031, AI672418, BF206660, BE738855, BG120429, BF129883, BF057158, AW959181, AV724420, BF106186, BF966523, BF213412, AL042137, BF211302, AI042351, BF206917, BF031857, BF515714, BF131974, BE514139, AV696443, BF037314, AW130577, BF129874, AA424461, AV661523, AW130565, AU127429, BF677116, AA902916, AU150429, AI239435, BF665735, BE155330, AV705068, BF212900, AA983275, AV710135, BF432386, BF211687, AA461260, BF057834, AA312396, AI627321, AI160503, N63373, BE502195, AV751301, BF184200, AI884925, BE559625, BE468064, AA186321, AV750990, AA749086, BF513143, AU152756, AA402517, N26419, AW025721, AI418879, BE268734, AA088855, AI042350, AA678020, AU150014, BF184441, AA113363, AI761107, AI457727, AW341372, BE674349, BE270920, AA888970, AA580858, AA649198, AV649723, AA100701, H24854, BE836719, AI819134, AA199866, AW025691, BG010680, R77878, BE087003, AA326555, BE550985, AA188173, AA424417, AI640581, H05951, AL044709, BF930036, BF792719, N41679, N56631, BF223482, AW779309, AI218982, H45855, AV751002, BE089649, CI7343, R81295,</p>

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HHSAX10	93	904783	1 - 2530	15 - 2544	

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				15 - 3619	BG170880, BE927964, AW954276, BE927869, BE927822, AW386244, BE927879, BE927863, AW750978, AI630917, BE927870, BF724110, BE927940, BE927963, BE927825, BE927858.
HP\AX83	94	906066	1 - 3605	15 - 3619	

					BF335709, AW974607, BG109021, AA649005, BE348562, AA169612, AI266549, AV727885, AI583996, AW193345, AA425009, BF108820, AI089470, AA450191, AA448713, AI445748, BF335707, AV726038, D81903, D60876, D80480, AA448623, AA603522, BE927820, AW959425, AA450125, AI565635, D59960, AW193749, BE927912, D52426, AA971081, AI077471, AW513848, D60740, BE328723, AA888175, T66249, AA182689, AA995923, BF906448, AW883238, D80942, AW009242, AA182655, BF906435, AI304474, BE927864, BF724109, AI273237, AA652449, AA255509, AA662493, AW939319, AW793202, F08953, AW793124, N94857, D60588, AA255537, AI187873, F11292, F12134, T16506, BF332578, BF349025, D81183, AA300988, AW806543, BF365610, F09771, AI144133, N83701, AA886533, N88236, AW382252, and BE151485.
HOFNG28	95	908746	1 - 1612	15 - 1626	
HOF0B27	96	911947	1 - 1919	15 - 1933	AW961869, BE077141, AW578424, BG255499, BF954315, AI261629, BE077135, AI148063, N36589, AI261572, BF802132, AW937843, AA426509, BF773463, AA432239, AA297161, AI149643, F12840, AW085552, AI261573, AW964755, AA086106, T74733, AU117446, BF155382, AA190566, AI800802, AV721960, AW863367, AW444435, R05875, AA252523, AW964780, AW959892, AI016747, T08225, BF195133, R10564, BG112973, AA312028, AI149199, AI370265, AI299757, BF514106, AI951761, BF765034, BF961480, BF745812, AA339807, BF961798, BF830434, AW381253, AA297204, AI193676, AI361910, AI565510, AI863790, AA252555, AI279364, AI379019, AI300980, AI431499, AI815225, AI364355, AI024659, AI494214, AI802120, AI351937, AI858581, AI864392, BE671413, AW075432, N55650, AW117663, BG057105, AA041199, R10154, AA227453, AA427655, AA424370, AA243514, AI610249, AA041436, AY008763, AL050283, AY008764, AF194031, AK000923, and AF175325.
HHBHJ45	97	913831	1 - 1633	15 - 1647	BG169391, AW949561, AI310200, BF3339286, AI302098, AI654459, BE729449, BE536951, AW968438, BE389695, BF665529, BE277374, AA625808, AA427852, AU154551, AA458825, AU151326, AA428109, AI120902, BF571546, BF222142, AA612971, AU130187, AU126787, AI347584, AI086482, N30370, AU157337, AI271968, W76546, AI688046, W74351, AA807857, BF678409, N95347, H18070, N79725, BF209686, AI347617, AI583445, H09608, AA804327, AA838452, H09609, AA164432, T09029, AW572063, BF337241, AA164431, W76465, BF810348, AI654258, F09074, AA192488, F11408, W72228, W25256, AV686355, AV685242, AW591780, AV698667, AV693138, AV694239, AV684641, AV697086, AA527521, AV693125, AV683176, AV695358, AV685230, AV695077, AA873514, AV684289, AV698337, AV698238, F08059, AW301970, AV691629, T09028, AI308013, AI254516, AI345333, AW301841, AI318573, AW274307, AW302778, AI343199, F04295, AV684299, AW603555, BE778359, AA132390, N62777, T16599, N47046, AW768945, AA459016, AA070813, BF799492, AA133507, AA887062, AA581050, N59845, BE181676, AA873503, AV711509, AL513597, AW301409, BGI79993, AL513907, BG104782,

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HHPDV90	98	914163	1 - 1872	15 - 1886	AI811005, AI653359, AI743036, AI568555, AV697280, AA625521, BE048864, BG167806, AI824027, AA401229, BF448652, BF438214, N40011, AA193304, AI130747, AI936637, AI368011, AI080358, AA404268, AW236922, AI275538, AA564363, AI276027, AI624113, AI379074, AI126543, AI275570, AI368003, AA962422, AI191276, AI635306, AI480304, AI492368, W45197, AI333916, W38715, AV702601, AA443016, AI934349, AW960595, AI291511, AA731161, AA488954, AI274931, AA488874, AI582669, AW469885, AA071470, BE079773, AI581645, W38762, AW594009, AI696471, AI383502, N92570, BE646049, AA625343, AI480410, AA613349, AA824555, AI693424, AI096708, AV684337, N27277, AA861317, AA463456, AI796055, AI041748, BE896736, AA335410, AI523346, AI933211, AA194258, AW571434, AI224569, AI868719, AA451885, AA135295, AV683399, CI6240, AA360398, AA257150, BF367469, AW250238, BF515389, AW875802, AA135165, BF927607, AI868703, BE178966, N34385, N42846, AA419446, AA736543, AA584194, AI085242, AA745092, AW613813, BF801143, AC002364, AL353937, AX048063, AF217518, AC008155, AC025593, AC006241, AL049776, AL163194, AC008521, AL109976, AC027319, AF196779, AF265340, AL121926, AC020913, AC010618, AC004999, AC011508, AL356652, AL109825, AC005231, AP001753, Z93784, AC018758, AC002126, AC006160, AL049547, AC004991, AC009247, U89337, U91323, AC008745, AC011455, AC008482, AL450226, AC016554, AC020663, and AA825569.
HWMMQ47	99	915068	1 - 1914	15 - 1928	AU117578, BE747272, BE740691, BF975570, BE791051, BF982819, BF568722, BF663926, BE779854, BE258824, AL534023, AL534024, BF967781, BE253195, BE888979, BE778582, BE252033, BG036978, AV751824, BE883871, BF683473, BE263408, BF307358, BE868436, BE392981, AI804750, BF973051, AU144804, BE298007, BE779716, AU145608, BG000903, BF971699, AI146343, AW027129, AI813831, BE395342, AU144372, BF237544, AI690884, BE786397, AI090031, AA478533, AW268818, BF237818, BE857063, BE296783, AL531481, AW327927, AI378303, BF894721, AA594858, BE256127, AU159188, AA147836, BG054746,

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HBCGY08	100	915214	1 - 416	15 - 430	BE880116, AI052526, BF826007, AW168408, BF828616, BF825755, BF337344, AI972366, BE221760, AW291494, AW296202, BE221730, AI659795, AI376244, BE502654, BF061519, AW628280, AW628245, AI250922, AW025770, AI142836, BE881510, BE933447, AI042083, AI621341, AI927233, AI824576, BF125935, AI628284, AI379711, BG114432, AW827289, AW088134, BF813177, AA740450, AW051088, AI589428, BE540578, AI637584, AL515173, AA731026, AV727136, AI633297, AW089006, AV709543, AV726200, AI609375, AI890887, BF812937, AW163834, AW051059, AI432570, AI819202, AW172878, AI337677, BE880341, AI567582, AI474646, BG029829, AW026882, BG251264, AI537643, AA738052, AV681719, AW410259, AW132107, BG178351, AI634682, AI445620, BG257656, AI581139, AI475371, AI421091, AW084056, AI813633, AI934011, AL513823, BE875243, BG029053, AW169001, AI345688, BF997967, BG122594, AW020397, AA732156, AI289791, AI679550, AI250627, AI801325, AI445256, AA088789, AL514267, AV681859, AI680453, AI583578, AL048323, AI698391, BF913616, AL048340, AI625701, AV682450, AW152587, AI249877, AI366922, BE895765, AW081383, BE965330, AI401697, AI687728, AI540674, AI561356, AW162194, AV682366, AW157183, AW827206, AI587606, AI263584, AI936003, F26535, BE963310, BG113299, AI273142, AI536574, AL514455, AI433611, AI458588, AW025279, BG164117, AI826415, AI440238, BF343521, AI890412, AW983832, BF924856, AI471429, BG256592, BE880182, BG117653, BG163353, BE791620, BE536058, BG032036, BE061378, BE877769, AW080746, AW834282, AI799540, BF032910, BF911528, BF822127, AI476076, AL513947, BE874133, AW673679, AI310332, BG122101, BE889355, AW192461, AW074605, AI866820, AL042382, BE965455, AW983829, AL040241, AI800473, BE544111,

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HODGH45	101	917394	1 - 929	15 - 943	<p>AF111849, AF155221, AF017790, AK026624, AF180525, AL050138, AL389982, AF061573, AL133560, U75932, AC003032, AK026633, AB047248, AF065135, AF107847, U90884, AF119871, AF141289, AR070212, AB049900, AF177336, AB047953, AK026947, U86379, and AK026630.</p> <p>AW275585, AA489939, AA480561, BF887136, AI285651, BE161469, AW057760, AA648942, AW072963, AI086603, AW630599, BE677227, AL138119, AA280886, R22196, AI038990, AI935827, AI446424, AI754064, AW500532, AA731859, AW855729, AA360082, AI174703, BF792103, AW275640, AI952885, AA425283, AW080062, AW935456, BE967607, BF748493, AA584360, AA330435, AI869406, AV683406, BG231195, AW802912, AI300608, AI183727, BF812696, AA548811, AA489390, BG230829, AW342042, AW963785, AA086391, AW975247, H66812, BE171849, AA345665, BE154761, AA016062, AA370761, AI823395, R43468, AW850089, BF530611, AV695910, BE974200, BF698734, AI623505, AI271693, BF933309, AA551580, AA826079, AU151751, AA018175, AV704185, AW169183, AI028148, AI275989, BF770872, AL043285, AW964164, AA021421, AA640305, AI433262, AW750527, H86246, BF958025, BE154704, AL048969, BF346854, AI274462, BE744372, AL049553, X94359, AC005535, AB032485, AF229986, AB000931, AC004922, AC009362, AL109806, AL158815, AC004835, AC006132, AL035460, S45332, AC002985, AC005000, AC008102, Z92844, AC006166, AL136321, Z79488, AF217403, AF124730, U58047, X69907, AC005251, AL157372, AL008726, AC002477, AC004996, AC002039, AC006115, AP000049, AP000311, AP001718, AL121917, AL080245, AF003626, AC005049, Z98742, AC004000, AC003969, AL162458, AC018663, AC009487, AB023051, AC004643, AC005846, AC005179, AC004650, AJ003147, AC006576, AL136307, AC020934, AC000115, AC010205, AC004811, AC004913, AL160053, AC008403, AF243527, AL353807, AL009181, AL031311, AB040900, AC007249, AL035659, AC009484, AL163249, AL031390, AL133163, AF045555, X84066, AC006317, AC007021, AF060911, AC068499, AL079341, AC020904, AK023361, AP000512, AK026899, AK000252, AC005224, M94634, Z48051, AB004907, AC005944, AC006162, AL050328, AC012442, AL353777, AC006474, AC003688, AC005057, AL034420, AC004148, AP001068, AL445196, AC006137, AC007845, AC004477, AL121653, AL133545, AL139327, U91326, AC006011, AC005154, AL035404, AC011465, AC007879, AC009311, AC005519, AC006376, AC016025, AL137818, AF196779, AC005701, AC008038, AL109804, AC005228, AC004797, AC005409, AC005326, AC004965, AP000221, AL138836, AL135381, Z85995, AC022432, AC073323, U73648, Z99128, AL121890, AC006075, AL139383, AC006121, AC009123, AC006249, AL034380, AL137795, AC004659, Z97206, AL121751, AL031847, AC015550, AC002037, Z69890, Z68287, AC005335, AC004225, AC011491, AC008626, AL118520, AC005962, AC025472, AL133551, AC003101, AC009032, AC005779, AC006388, AC005003, AL008636, Z95116, AC004883, AC004585, AC006455, AL031427, AC007114, AC005098, AC005859, AC005037, AL031280, AC002110, AC000405, AC005546, AC002104, Z99291,</p>
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HWLKE58	102	917716	1 - 2567	15 - 2581	AL035420, and AC004907. AW957184, AL520230, AL135399, AL515934, BE618778, BF056891, AL520231, BF966712, AI633878, AW515316, BG032703, BG027920, BE042542, AW088411, BE883723, AL518067, BE218306, BE644805, BF087512, BG054496, AW207435, AW771521, AA902264, AW083012, AI818209, AW105148, AI669659, AW514659, AA126445, BF516057, BE465947, AU152940, AI927938, BF031562, AA310489, AW410334, AW182807, BE465917, BE763696, N21466, AA767314, AI420205, AA054496, AA938728, AI493810, AW771502, AI743602, AW675411, AI090291, AI283114, D81907, AI417561, AA427677, N66098, AA043792, AA573278, AA427532, AA431514, AI752320, AI819645, W19853, AA186486, BG003474, W00707, AI278309, BE349516, AA292620, AI366801, AA058340, AW512566, AA349431, AA973972, AI434568, AA349432, BE221654, BF104164, N62707, AI631297, AA766576, AA345941, AA588743, AW189042, AA724174, AW089555, BF432696, AA187281, AI638738, AI678159, N98699, AI440413, AI917203, C02522, AA829470, AA431188, AI332895, AA653570, C00128, BF998349, AI702887, T40865, AA970774, D79887, AI753861, AA766639, AI752319, D78858, AA809488, AA360504, AI962149, AI440138, AA456027, BF352331, T39804, D62361, AW149169, AW089455, T39783, BE618245, AA328062, AI220712, AI925346, H83314, AI668846, T40872, D78824, AI932606, R77568, BE782129, AI587187, N90043, D61745, N78427, AA300827, AA174177, AA350598, AA043666, R61473, BF089446, AW514435, AA126569, BF089445, BE536123, AA329088, AW796219, AW796258, AA453387, AA292619, AA096434, BF570490, AI624981, AI749472, BF837084, BF838288, AW275782, AW275777, AA704575, AW089135, BE940131, BE163882, BE163878, BF090691, AA348799, AK023143, T39879, and T39889.
HRADL40	103	919433	1 - 1047	15 - 1061	AL523954, AI057097, BE737274, AI740479, BF972939, BE792858, AI797405, BE250379, BE409256, AI418377, BE513939, BG032129, BE734267, BG167040, AI814639, AI817600, AI743696, AW268351, BE563371, AI889412, BF970634, AI623409, BE409777, BE268371, AW612995, BE250540, AW105242, BE464854, AW117856, AW272529, AI745423, BG059988, AI520744, BE407785, AI802882, AW951521, AU151633, AA988074, AA587623, AI864929, AI091730, AI766700, BE299112, BG165794, BE785114, AI382349, AI827080, AI056586, BE387632, AW083461, AI168189, AU129529, AW188543, AI962116, BE789666, AI880229, AI868331, AI338997, AA157276, AW002329, AA258412, AI364317, AW204445, AW197889, AA449331, BF826010, AI564865, AA775328, AW196304, R84307, AA988067, AW473206, AW249890, AA858029, AI480058, AA157315, BG036425, AA192986, BE940591, AA302199, BF109749, AI261917, H08847, T29752, AI742031, AV744823, AW197790, AW197780, AA364515, AA157347, BE205948, AI193424, AA405800, AW243173, AA135269, AA135188, AW250551, AA846661, AA192649, AI760066, AA601382, BF797658, AL036368, AA157251, Z25820, L24774, Z25823, Z25824, Z25821, AC007162, AC005212, Z25822, and U80735.

HOFMP73	104	919895	1 - 2026	15 - 2040	<p> AL534904, AL532610, AL516508, AL518341, AL537853, AL535425, AL536043, BE779892, BE742082, BF342824, BF689584, BE728130, BG036052, BE616486, BE908269, BE263125, BF342337, BE901909, BE744162, AW239327, BE744723, BF314677, BE740545, BE312905, AI909673, BE892672, BF038574, BE741530, BE737150, BF312905, BE616822, BF032371, AW966195, AV683435, BG119309, BF037944, BF314356, BE735054, BE747683, BE907163, BE735491, BF311641, BE260982, BE271649, BE743218, BE736799, BE261948, BE279316, BE313251, BE742646, BE272420, BE336884, BF690789, BE871599, BF689557, BG260726, BE612361, BE737259, BG113153, BE892856, BE281294, AV706514, BF315657, BE898510, BF689643, BF316842, BE261398, BG036139, BF725733, BE939964, BE313385, BE260757, BF525729, BE788732, BE622344, BE742327, BF724840, BE386718, AA037208, AW996326, BE741341, AW160971, BF351816, BF930665, BF976960, BG117567, AV653871, BF984362, BF317414, AW393167, BF691819, BE168310, BG035435, BG252355, BF571880, AA179450, BG119955, AA428750, BE256703, AW390219, BE179920, R91114, AV728232, AI907139, BF087769, AW804565, AI142132, AV647759, AI142136, BF755012, AV723986, AF062716, R52199, AV646258, BE785514, BE260283, AW838307, BE908603, BE174669, BG118190, AV696733, AA082368, BE174445, AA372215, AA337535, AV368737, AV725049, AV658276, AW948691, AW368840, AW948696, BF037070, AV733360, BG121951, BE698728, AA788902, AA559314, BE259919, AA385829, BF341835, BG118704, AA337949, AA360462, AW948698, BF930434, BF923596, AA376841, BE172795, AV692780, AA362386, BE173127, BF913320, AW068069, BF692127, AW068800, BF803377, T71996, BE173259, AA305777, AW948694, AV708415, W32145, AV709872, BE167028, AW385218, BF081248, AA337859, BF351796, BF844572, AW947386, AA339979, AA379722, AA853192, BF830253, BF907280, BE172880, AA336721, BF032429, BE839327, BE772910, BE772907, BE839310, BE841076, AA337414, AA361134, BE772895, BE839302, BE772893, BE772902, AW450427, BE841048, BE839324, BE772901, AA307018, AA357376, AA360603, BF830142, AV734812, BE170712, BF761106, BE839315, AV648046, BF229791, L16510, M14221, AF285442, AX013195, M13230, Y18460, L22569, L04859, AJ010277, AF044323, AF078844, Z97214, AR050959, X75295, AL137711, AF274348, AF274347, AB052191, AF118094, S82852, AL353940, AB048913, AL133084, AB047947, S83440, X93328, AF032666, U92992, AR068466, AF171061, AF013214, X66871, AF159148, AL050172, AB050431, AK027116, X62580, E12580, I09499, AB051158, AL389935, AL121952, X98066, AK026885, AL137459, AF126488, AK024747, AF090901, AL136984, AK026642, AF116609, S73498, AL080148, AK025350, I17544, AK000250, AR038854, U62807, A08912, AL355719, U95114, X06146, A08911, AL133665, U89906, AK024594, AB048919, AK025632, AK025658, AK026570, AF139986, AL110222, E02221, AL096728, AL161802, AF130104, AF116691, AF119336, X66862, AF098484, AF218006, AL389947, S76508, U72621, AR064250, U96074, AL137461, AF007142, E12806, E01812, AF113222, AF195092, U42766, J05277, X72889, AB020592, </p>
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HOFMS02	105	920253	1 - 374	15 - 388	<p>X61399, A08913, M92439, AF094480, AL137533, AF167995, X00474, AF130055, AF204760, AK025484, AF061981, A08910, AL049452, AK000489, AF116631, AL080118, A08909, AF094850, AF067790, AL122110, U83172, AF119883, AL359941, AK026633, AL162083, AF119894, AK027096, AF119899, AL117587, AB041801, AK025906, X80340, AK025092, AL050116, AK025113, AB047883, I32738, AF287051, AF208026, AF002672, AL162079, AF130110, U80919, AK025465, AF116573, AF102578, AJ005690, AL110218, AP000081, AK026556, AL080060, A08908, U96683, X6757, AL096727, AR083264, X66975, E02349, AC004554, AF130342, AL355701, A18777, S79832, AF145233, AF038847, AR070212, Z82022, M85164, and AK000247.</p> <p>AA076264, AA085092, AA080989, AA063334, AA075694, AA084890, AA069099, AA084855, AA084814, AA078759, AA083056, AA083017, AA074846, AA070575, AA069969, AA082755, AA075614, AA075818, AA100017, AA070377, AA070995, AA065075, AA113255, AA070965, AA070321, AA075784, AA075592, AA085065, AA134716, AF093677, L07095, V00711, AB042524, AB042809, AB042432, AB049357, L07096, and I62858.</p> <p>BE729461, BF795181, BG108619, BF309103, BE733125, BF027564, BF309068, BE296065, BE281099, BE298511, AW410246, AW409779, BF526623, BF308487, BE298767, AW271999, BE299141, BE298938, AW070334, BF309208, A1810901, BE221973, A1693910, AA029642, A1435095, BE388330, A1765687, AW510727, AW470549, A1862580, A1394548, A1972685, BF589734, N98473, BE223075, BF475345, BF434507, BG059921, A1809960, A1762024, BE779192, AW073339, BF221682, BE856254, BE044436, AW410326, A1763319, AA029710, BE302520, BE465271, A1701495, A1017268, A1799592, A1401766, A1392786, BF308873, BE270326, AW131646, BE390072, AW593466, A1371702, A1638231, A1655706, BF939266, A1369175, AW409726, A1204980, BF308645, BE859057, BF593536, BE205950, AW663740, A1360022, A1278134, AA632035, AA039563, BF056862, A1570638, A1204500, A1362875, BE294172, A1340928, AW294855, A1424041, BF196199, AW237311, A1459219, A1766885, AW016416, A1203132, AA504431, BE551227, AA447758, BF111136, A1910708, N57532, A1767238, A1421493, BG231658, BF740107, W56299, AA279292, W55871, AA845967, A1340930, W76092, A1870442, N49400, N66084, A1051272, R49397, AA834166, N92406, W61301, AA977863, AA279270, AA453689, N49489, BE279899, AA039564, N51462, BG054588, R73170, AA911075, BF475817, BF851978, AA769921, A1378019, BF224168, A1928755, AA379570, AW269014, AW592153, A1886020, BE044396, BF852201, T47196, BF852157, T90531, BE081267, AA300798, AA323087, H69590, A1653392, W72845, AA23218, BF054948, BF111142, T83066, W24631, BF024523, BG149504, A1886244, W65365, BE075405, W24197, A1354659, A1419610, T81327, BF917322, N79047, A1880342, AW449928, BE218696, N46989, A1419132, BE219972, BF304931, AA504197, BE299549, A1370420, A1651959, R02389, Z42404, Z38611, AA676675, N53602, A1350904, BF205597,</p>
HUVHD12	106	921707	1 - 2708	15 - 2722	

HMVDQ41	107	922191	1 - 1980	15 - 1994	T15353, BE828535, AL445192, AB037836, and AX018071. BE908874, AA403039, AA772356, AA890039, AA706235, A1796685, AW958911, W56103, AA639769, AA707393, A1971384, A1400642, BE349391, A1419056, AA931654, A1074056, AA725449, AW752569, A1278287, A1051080, AA934509, A1056195, A1827412, AA291642, AA252870, A1278795, A1077777, A1344740, AA855074, AA287208, N99681, AA625359, AA707796, A1085793, AA910676, A1375275, A1277706, AA968653, AA482049, A1040845, AA004744, W56146, AA128102, A1038120, AA926651, A1808622, W42934, A1241340, A1419232, AA938251, AA481865, BF939403, N62191, A1350660, AA846421, BE174045, AA928335, AA987944, AA805065, AA325681, A1188852, A1266586, AA401330, A1022609, W37593, A1459456, AA514539, AA480369, AA938533, AA694474, AA694542, AA642598, A1085080, R55037, BF885412, A1719065, A1022981, R36922, A1868718, N94983, A W204000, H62802, AA284488, AA125812, H62716, H41118, AA639530, T49454, T49455, BF772108, AV698354, AW847806, H42251, T36167, A1350924, AA782685, AA252893, A1051453, R10302, AA214099, W86591, N76488, H42250, N59273, BE165692, AA781103, BF985470, A1191721, AA680383, H22403, R10303, N71946, W19456, BE142862, AA977361, H22370, W42869, BF935739, R55145, W37488, BF942272, BF942336, A1309601, R10631, R10632, N76744, AA213991, BF929098, T24749, AA725118, AW753876, R55007, AA090452, BE146939, BF772122, A1247921, AW028468, BF939755, A1084241, BE348377, BF991587, H58310, AW058434, BF947830, BF991716, BF947297, BF991604, BF943751, BF947310, AW839223, BE075398, BF764247, BF846830, AL137496, AF303378, AF300796, I76236, I76219, AC023790, AL117345, AC005373, AC010326, AC006584, AF111168, AC010205, V00589, X57170, AC007182, AC007221, AB019437, X06789, AL133472, J00063, AF193582, AF193580, AF193585, AC007954, AF193581, AF193586, AF193587, X71804, AF193590, AC006449, X83747, X83748, AF193588, AF193591, X71799, X71800, X71797, X71802, AC026704, M10817, AC005409, X83746, X12811, AL109797, AL158824, AF193592, X12622, X16851, X58365, AC004787, AC007131, AB015590, X04309, AL162718, AF099810, AC005284, AL138976, V00647, L49397, X58368, M35175, X04308, K01374, X58367, M74438, X83749, X63147, J01861, M13919, M13920, AL135978, K01537, X63146, X63145, V01426, J01009, AC007955, AJ245808, AJ242468, AL050331, X56635, X56631, X63148, AJ237911, V00648, S73106, X56637, M13375, X56632, AF284748, AB001499, AF000350, AF284747, X56636, K03511, K03510, AB001495, AF250529, AB001492, AB001493, AB001494, AB001498, AB001503, M13921, X05867, AF250528, AB001501, M18680, AL031658, AC006120, and S73107.
HODGI03	108	922879	1 - 216	15 - 230	
HODHD14	109	922955	1 - 734	15 - 748	A1670994, AA457520, AW008614, AA284465, AU147140, AA834633, W91945, BE879668, BE382371, AA179361, BF841870, A1221804, AL034369, AC008468, AC007394, AC006079, AF003528, AC006231, U96409, AL049834, AL132671, AL121875, AL049594, AC005274,

					AP001538, AL137787, AF022141, AL023693, AP001674, AC002478, AL008627, AL118508, AL161892, Z93015, AL445490, AL157359, AP001724, AJ229041, AL033397, AC005857, AC005226, AC004460, AL445143, AC010389, AF245226, AC011294, AP001693, AC0068919, AC020549, AF109076, AC004237, and AC010223.
HODDC03	110	925296	1 - 528	15 - 542	AC009329, and AC020581.
HVCAG04	111	925735	1 - 1594	15 - 1608	AI936826, BE271770, BE385990, AW149665, AW590950, AI990500, BF126050, BF432379, BE392412, BF439382, BE395797, BF125134, AI884686, BE395581, AI742092, BE858216, AW150789, BF939693, BF594242, AI859538, BE378674, BE350014, AI018769, AW338938, BF726459, AI336858, AW075598, AW148557, AI423162, AI363261, AI150931, AI459805, BE395206, AI765236, AW954549, AI391683, AW191974, AI202043, AI173383, AA626797, AW087372, AW075549, R11723, AI937602, AA084249, AA19229, AI566797, AA419214, AA613995, H17965, AV725028, AI499630, AI272281, AA084248, BF054837, BF054680, AA075710, AA075743, AI263480, BG057775, AW771806, AI869176, AA834860, AW128849, AA780222, AA970361, AA574173, R17696, BF935708, AA775244, AA827444, AI969011, AA706146, AA665640, BF726644, AA173739, AI480207, AA496806, H06707, BF508715, AA082074, R14544, AW768971, H17189, AA349894, R43737, AV717094, R41205, AV727120, BF219218, R20352, AA776783, AI767459, AV747689, AI141302, BE386060, AI421975, H06756, AI582720, AI054234, AA582576, BE041936, AI140655, BE746601, BE736301, BF345141, AI299246, BE899287, AI138793, AW014802, BF477409, BF432690, BF125664, AA349893, AI817194, BE827461, AA102212, AA620332, BE858655, BF347279, AA960903, AA994321, AI266676, and AF034633.
HCRCE02	112	925837	1 - 1551	15 - 1565	AW082702, AW182938, N76185, AI760396, AW058256, BF939004, AW890838, BF438133, AI800552, AA996239, AA774721, N39067, AA984011, AI094521, AA456754, AA573698, N95736, N63430, N64772, AA836623, AW890829, T56007, H28396, N48422, H28371, and Z82254.
HHERA91	113	926067	1 - 2542	15 - 2556	AUI24593, BF305985, BE793458, AW411525, BE746024, AW411524, BE745264, BF792014, AW845240, BE378421, BE272083, BG036629, BE273980, AV684577, BF340012, BE873767, BF033645, BF984116, BF980548, BF306936, BE780737, BF436316, BF968051, BE392778, AUI48420, BE777873, BF970020, BG254594, AV707425, BE898179, BF969458, AA442297, BF307860, BE176556, AI921390, AW083114, AI432643, BE857417, BE908252, AA434090, AW135378, AI907299, AW129697, AI907302, AI559576, BF306438, AW088122, AA577937, BF855709, BG114638, BG005738, AA437232, BF196470, BF850283, BE905441, BF803784, AA558517, AI952737, AW848212, BF810009, BE076517, BF804862, AW020932, AA434362, AA357638, BE272724, BF741455, BF933621, AI834236, AI653899, BF837849, BF964440, AA479851, BG011157, H53665, AI674310, BF741442, BF799562, AA496510, AA853878, BF033991, BG170573, AW292697, BE396149, AA428249, AA477491, AW973725, BF807612, H53626, BF968611, C01952, N41205, AA430740, BG222431, BF765880,

HAGDL82	114	928396	1 - 1864	15 - 1878	<p> AI277437, AK022597, and AK000530. BF038718, AI052255, AI627552, BF433190, AA890036, AW467145, BF513360, AA679966, BE567783, AA932501, AI655727, N95443, AW613958, H15351, AI308231, AA678372, BE567435, AA861702, AW661963, AW661972, AA844485, AA768243, W69720, W69848, AI025683, N42789, N69505, AI271962, AI953406, AA398963, W24323, AI004883, AA564406, N31480, AW296874, N76230, H11150, AA005413, AA398826, AI770002, AI061173, AI147037, R39153, AW859636, AW859227, Z45949, N54527, AI672289, BF671244, H11062, AA661956, AW970819, R14035, Z41567, AA005414, BF095740, BF095666, BE774830, R01400, AA811935, H15726, AI080087, R01399, AI611688, AA491284, AA582554, AA121777, AI079910, AI569086, AI888441, AI298710, AA468923, AA593471, AA565426, AI733856, AI285696, AI040051, AA332989, AI471691, BF842195, BF337291, AA346586, AW327624, AI160117, AA678436, AA302970, AV763538, AI917132, AA191418, T15897, AL035455, AL049985, AC016831, AC004543, AF017104, AL139182, AF200465, AP000963, AC009294, AF205588, AC074331, AC007386, AL136305, AL122001, AL035451, AC004965, AJ229041, AL109919, AL133238, AP001732, AC007405, AL049696, AP001696, AC020898, AL078462, AP001601, AL117337, AB042031, AL121897, U89335, AL353739, AP000472, AC008534, AP002529, AC006195, AC007390, AC007376, Z97985, AC018897, AC006479, AC009493, AP001683, AC007364, AL117187, AP001698, AC005772, AF015720, AL021939, AL356503, AC020655, AL133355, AL078593, AC064878, AL139395, AP002533, AC007221, AC004804, AL049643, AC007545, AC009223, AL135839, AC002525, AC007388, Z84470, AC009179, AL136084, AL121578, AC005899, AC004385, AC005911, AP001712, AC006197, AL022310, AP001706, AP000518, AL049712, AF107258, AC005066, AC004547, AC005701, AL080317, AL031733, AL163268, AL354872, AL391374, AP001697, AL359704, AL137067, AC007842, AP001669, AL136139, AL160033, AF003529, AL031985, AC007157, Z97181, AC006144, AC069298, AC005326, AP001328, AC007077, AC004655, AL391986, AP001700, AL021528, AC008896, Z70272, AL354720, AC007316, AC007102, AL161804, AL050335, AC007653, AC007528, AP001677, AL133284, AL049588, AL117333, AC009468, AC024162, AL122057, AF188025, AL049759, AC009406, AC083863, AB020868, AL445188, AL136300, AC009470, AC004817, AC011248, AL109828, AC007907, AC004865, AC025765, AL160191, AC069026, AC008842, AL135744, AC004867, AL022717, AL121757, AL138958, AL121583, AL445604, AC010596, AL121919, AC011890, AF027390, AC010363, AC006019, AP000466, AF265340, AC005324, AC007790, AE000660, AC010165, AC007597, AC007563, AL035458, AL022719, AL022165, AC005822, AC002288, AL132718, AP002898, AC011452, AL122002, AL137143, AC008074, AC002086, AC026197, AC002472, AC022013, AL031768, AC019171, AL049709, AL050310, AC002422, AC005071, AL132773, AL109801, AP001672, AC007050, AP000355, AL137851, AC004047, AP001694, AL389983, AL157413, AC008071, AL117338, AC009506, AC027689, AC000003, AL121593, AC004103, AL050307, </p>
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HWBDS34	115	930484	1 - 3044	15 - 3058	AP001346, AC007845, AL035653, AI006996, AC005058, AP001172, AC008079, AP001598, AC022274, AC007262, AC006205, AL390755, AL096776, AL158832, AC003071, AC004053, AI049745, AA025596, and AI625270. AU130359, AU118385, AU130640, AU127870, AU127056, AU128471, AU129803, BE886921, AW188126, BE889704, AU128544, AI114658, AA779297, AI936493, AW188141, AL045312, AI553970, BF002279, BF671616, BF061427, AI139399, AA406422, AW151544, AI150128, AI194584, AW131406, AL047872, AI087327, AI004128, AA887912, BE708344, AI801388, AA010422, AI194501, AI500467, R66419, BE150925, AU117686, H83852, AA973155, H08158, AI910805, H83831, R01915, T75488, AA058677, AA471337, Z41823, AA774580, AA010394, BE041711, T75527, R52813, AI000146, AA214136, AW014661, AI910431, AI798347, R57531, F03794, AA213958, R01963, BE838102, BE707063, BE706963, T86495, R52845, BF110371, AK027051, and D87466. BF033707, BG116039, AI820052, AI399661, BF940969, AW188045, T26603, AI674067, AI091805, AA477591, AA480288, AI218039, AI300906, AW978872, N71816, AI936066, AI245622, AW194052, AA291409, AA639600, AA778322, BG057053, AI334794, BF732599, AI378435, AI201307, AA918657, AW102947, H01857, AA861142, AI352598, AA302632, AA992931, AI360566, AA931399, AA847869, AW967258, AW081519, AI869896, H01858, AI698735, AA403312, AA936581, AA972408, AI025530, AA143416, AA781469, AW341711, AW003441, R46670, AA613528, AA757047, Z92544, and AI391671. AA455081, AI263465, BF912280, BF912197, BF912198, AC004980, AL109626, AC006031, AC008774, Z83819, AL445590, AE000659, AC026188, AF003529, AL133328, AC023478, and AC034195.
H6ESA39	116	933568	1 - 1250	15 - 1264	BF684524, BF340318, BG107767, BF681126, AA497123, BE250611, BF673679, AI925369, BE778532, BE250414, AA497045, AI193675, AI125248, AW301040, AA001314, AA063616, BF109644, BF516348, AA039474, AA039475, N91255, AW630056, AW613821, AI991147, AW970517, AI306650, AI128891, AW627576, AW515210, N92376, BF446911, AA781865, AW007579, AA467823, AW630816, AA938705, AA706012, AA467879, AI695530, AA040221, AA831695, AA541653, W73974, AA872459, W72343, AW103804, BE076374, BF331452, AW605476, AA001684, N26202, D31084, AI245152, W19909, BE932204, AI583969, AI672730, AI707545, AA551882, AA578108, AW088337, AA036698, AI365605, BE841269, AA578193, BF931099, AW605475, BG153138, W24618, C02159, W04846, AW975002, AW979204, AW975037, AW976024, AW975942, AW975965, AW971975, AW972845, AW979127, AW972292, AW975032, AW979238, AW975031, AW975628, AW971403, AW976023, AW971404, AW975105, AW969680, AW979208, AW974801, AW975954, AW971968, AW969839, AW972721, AW969885, AW975952, AW974998, AW969791, AW975930, AW974786, AW970942, AW971732, AW975876, AW969673, AW979098, AW973219, AW971375, AW973254, AW979090, AW979106, AW979176,
HPCOR06	117	933678	1 - 457	15 - 471	
HTFNO06	118	933989	1 - 909	15 - 923	

HODFY08	119	935520	1 - 456	15 - 470	<p>AW979002, AW973213, AW973717, AW975971, AW975154, AW975981, AW972296, AW972377, AW975632, AW975966, AW974964, AW969643, AW973750, AW979294, AW970936, AW975149, AW975649, AW975028, AW973209, AW975025, AW975254, AW974785, AW974823, AW976511, AW974806, AW974658, AW975585, AW976031, AW974975, AW975027, AW975020, AW971326, AW975019, AW969852, AW971254, AW975990, AW972849, AW970889, AW972867, AW975692, AW979220, AW970969, AW979219, AW975959, AW979169, AW973819, AW969816, AW973185, AW979212, AW969861, AW974802, BG151745, AW971378, AW975634, AW975015, AW979054, AW975167, AW972226, BG153750, AW972660, AW969727, AW973814, AW973775, AW973217, AW969768, AW975896, AW973779, AW976003, AW969874, AW976000, AW975434, AW973262, AW973270, AW970113, AW972884, AW973202, AW972695, AW973805, AW972719, AW976515, AL039074, AW975976, AW979165, AW976510, AW971954, AW972680, AW975975, AW969884, AW972943, AW969759, AW979083, BF592735, AW976982, AW970587, AW973650, AW979175, AW969931, AW973986, AW979064, AW975938, AW975016, AW975138, AW975968, AW970921, AW969766, AW972709, AW979116, AW972806, AW973987, AW975910, AW975943, AW972689, AW972706, AW973164, AW974374, AW970097, AW973824, AW971964, BF588769, AW975904, AW974379, AW969752, AW976037, AW973718, AW973967, AW975933, AW973734, AW973207, AW972882, AW973104, AX046357, AR060234, AR023813, AR066494, AR064707, AJ279014, AR096545, A81671, and AR096546.</p> <p>AA747608, AW975995, AA256200, AI431918, AW886025, BF965611, AI621212, AW867016, AV645418, AI436124, BE048562, AW898294, AW880127, AW880440, BE081675, AW997462, AW880432, AW880266, AW946173, AW880359, BE170427, AW880049, AA228900, AW862989, AW899139, AA558500, AW796080, BE816601, BE010148, AW996482, AA640849, BG057615, AW996413, AW893101, BE816610, BE170365, AW270207, BE000410, AA501690, BE827577, AA721598, AW237896, BE181299, AW237940, AW996346, BE088714, AW795108, AA501719, AA557437, AA910096, AW063981, BE170597, AA503566, AW275631, AA259218, AW996170, BE091646, AW899295, BE082424, BE835169, AW946231, AW996655, AA640998, BE826780, AA713882, BE082418, BE826740, BF332416, BE091167, AW866936, BE082383, AW887658, AW894357, AW946277, AA715611, BG059116, BE089449, BE826743, BE170594, BE826769, AA613748, AA658572, AW880433, AA225819, AW946266, AW238729, BE835200, BE835202, BE082440, BE080195, AW865798, BE079906, BE079912, AW865618, AW880070, BE082419, BE082423, AW880128, BE082437, BE827556, BE816607, AW868862, BF478324, AA226655, AW796081, AA632977, BE168364, AA558278, BE699508, AW894540, BE816614, AA170820, AW884606, AW892161, BE089273, BE816615, BE183896, AW821605, BE007276, BE089602, BE184051, AA650193, BE082421,</p>
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HOF0C32	122	941969	1 - 1883	15 - 1897	AL532432, AL532431, AU132058, BE798843, AU139276, AU119208, AU138608, BE779199, AL042862, BE619080, BE619600, AU137132, AU138251, AU139095, BE736021, AU139250, BE736975, BG166907, AV702693, AU135166, BF680307, BF724892, BG032973, BF694955, AU117328, AV699036, AL080042, BF338982, AV699058, AV683938, W02541, BF126282, BE439809, BF377282, BE047356, AA410911, AW374122, AV691776, BF762187, AW957493, AV687261, AW629925, BG252180, BF762186, BF367040, AL535766, AW899940, BF951967, AA053196, W45135, BE831552, N24471, BE545515, AV654362, AA813270, AW892301, BF356093, BF855109, AI459881, AV763974, AA336819, AA373756, T83705, AI669408, R96269, BE246428, N73356, BE677673, BE241862, Z18911, N39900, AA345382, AA090019, BF996474, R17144, H99188, AW615320, BG010667, AA294859, AA089600, H04517, BF376026, BG236821, H23366, BF889430, AW390191, BF061792, BF968205, AL046849, AI613017, BG058208, BF882343, AV727776, BG110684, AW059837, AI249257, BE781369, AL040243, AI633419, AI828731, AW129202, AI284020, AI273142, BF970449, AW196141, AI554484, AI912866, AI702406, AI445165, AI702433, BG164371, BE047952, AI872711, AI568870, AI952360, AW118512, AW131954, AI612920, AI349933, AI690312, AI570384, BF724691, AW071417, AW002342, AI569616, AI475451, AI799199, AW082040, AW169671, BG179993, AI610756, AI866002, AI433976, AW132034, AI678302, AI499463, AI610645, AI636445, AL043326, AI811344, AI571551, AL120854, BF055737, BG031664, AI224992, AI554427, BE963918, AI636719, AI539153, AI269696, AW071349, AI868831, BF792469, AI498579, AI590120, AI922901, BF795712, BF344652, AI349772, AI648684, BE964700, BE964812, AI857296, AI537677, AI539771, AW301409, BF812933, AI866608, AI866100, AI269862, BF343172, BF341801, AI308032, AI862144, BE544111, AI440239, AV732936, BG180034, AI612759, AI491852, AV735353, AL045266, AI273048, AF112227, AF153979, U49188, AK026045, I48979, AF219137, AL133640, I89947, S68736, A93016, I89931, AF218014, L31396, L31397, AF113676, AF125949, AF104032, AF090903, E03348, AX019230, AK026855, A08916, AL133093, AL389978, AF116644, AF158248, A08913, AL133565, AL359596, AF116649, AF116639, AF113013, AK026865, AF078844, AF130082, AL050393, AX046603, AK026741, AX019229, X84990, AL133557, AF116602, AF116646,

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HTTDM15	123	942511	1 - 1895	15 - 1909	BE883332, BG107414, BF314540, BE898459, BE746984, BE542496, AW958579, BF573504, BE734208, AU125474, AW953779, AW292502, AJ802426, AU149129, BF575571, BG031927, AA436628, AU150986, AA076658, AA046746, BF081743, AA046670, AW294732, BF095716, AW673051, AW601449, AW601455, AI601235, H66950, H66951, R85537, AA363520, R40736, AI202299, BE092409, AA363830, BF085875, AV749014, AW190087, AA808657, T98596, AW896216, T98595, AA355808, AI910194, AA079565, AW377204, AW377198, AW377106, BE699057, AW377170, AW752839, AW362224, AI223245, BE186054, BE832662, AW579894, AW579890, BE876022, AW377180, AB007866, and AL109823.
HOVAY63	124	944031	1 - 729	15 - 743	R32912, R32812, and AL022725.
HDPFY41	125	946502	1 - 2106	15 - 2120	AL042656, BF982270, BF678765, BF095732, AW971745, AV681512, AV681529, AV681509, AV681500, AV681492, AV645393, AV645392, AV645390, AV645385, AV681526,

AV645336, AV645317, AV681507, AV681465, AV681525, AV681495, AV681505, AV681502, AV681504, AV681486, AV681483, AV681464, AV681462, AV681487, AV681506, AV681523, AV681519, AV681497, AW812618, AV681471, BF095731, AV681513, AV645358, AV645401, AV645332, AV645383, AV645377, AV645379, AV645389, AV645369, AV645380, AV645321, AV681527, AV681501, AV645400, AV645404, AV645353, AV681458, AV645334, AV681510, AV681528, AV681474, AV681514, AV645339, AV681477, AV681491, AV681472, AV681475, AV681488, BE613349, BE612945, BE622828, BE613070, BE614237, BE614307, BE613136, BE622931, BE621911, BE614230, BE622925, BE618811, BE622868, BE620742, AV681461, BE614451, BF679682, AV645350, AV645344, BE620756, AV681531, AV681468, Z99396, AW861944, AW804686, AW392670, BE695785, AL119341, U46341, AW604723, AW877209, AW372827, AW858526, AW577135, BE705903, BF868697, AW858525, BE705906, AW384394, AW861889, AW858455, AW363220, AL119457, AL119497, AL119355, AL119319, AL119324, AL119363, AL119443, U46346, U46351, AL119484, AL119391, AL119444, AL134902, U46350, U46347, U46349, AL134533, BE705905, AL119483, AL119396, AL119335, AW861954, AL134528, AW604726, BF868687, AL119439, BF868684, AL042433, AL119522, AL119399, BE705904, AL134920, AL037205, AL119496, AL119401, U46345, AL134536, AI142132, AL119418, AL042450, AL042614, AL134525, AL134538, AI142131, AL119464, AB033091, AL050294, AB051127, AR080280, I25027, AR054109, I44515, I26928, I26930, I26927, I25041, AR069374, AR069375, I44516, AR091518, AX009487, AR035224, AR009152, AR009151, AR093392, AR093383, AR093384, I85513, AR027099, I05393, A10617, AR028792, A94046, A94054, A01324, A01323, AR034783, AX030966, I63120, AR067733, AX009486, AX029455, AR064322, AR064323, AR064320, AR064321, A94048, A94061, AX027785, AR038307, AR038321, A49045, I05430, A83642, A83643, AX035462, AX003194, A70359, A32110, AR083151, AR019094, A92666, A92668, I49890, A92667, A92665, AR028791, AR028793, AX032758, AR018924, AR018923, AR000006, AR015960, AR015961, A48774, A48775, AR000007, AR051652, AR091393, AX008865, AX008867, AX008868, A92081, A92080, A92077, A92078, A92079, AX030369, AX030368, AR069413, AX033488, AX033489, AX033490, AX033474, AX033486, AX033487, A91752, A91751, AR069417, AX036660, AX036661, AR068508, AR068510, AR068509, AR091571, AR085090, AR003585, I58322, I58323, A85308, A91754, AX026821, A63067, A51047, A63064, AX044426, AX044425, A63072, AR031375, AR068507, A60213, AR068506, AX046332, AR062871, AX001323, A44171, AX027908, AX027904, AX027906, A49700, A60207, A60208, A58521, AX001324, AR068550, A23373, AR068551, I58669, A29109, A32111, AX004550, AR031374, I07209, I07249, A63954, AX026820, AR019098, AR051651, AR019097, AR020199, AR020200, AR001287, AR020198, AR020197, AR029418, AR067734, AR067731, AR067732, AR029417, I89986, AX024906, AR085093, AR051957, I09121,				
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HCOPB92	126	948608	1 - 466	15 - 480	Y14971, AR019096, A93444, A46342, A46343, AB026436, AR055065, AX046357, AX040911, AR054110, A30600, AR032878, AR055066, AJ251859, AX030435, A81671, AR066494, AR060234, AJ279014, and AR069079.
HBJHO83	127	948708	1 - 963	15 - 977	AC000120. AW139587, AW206289, BF439266, AI418005, AI196170, AV721569, AI493150, AI539840, AA827263, BF525553, AA342835, AV723060, AI135079, AA992466, R84740, AA018860, AA889455, AI032948, AI086195, H05897, AI136660, AI052553, AA335442, R96455, AW341838, R96454, AI204085, AW277153, AI004047, BG253018, AI916309, BE219764, BF439900, AI123630, AW339238, AA521073, AI144557, AA935749, AW207577, AI269030, AW513165, AW611961, AI554132, BF335547, AW604457, AA777781, AA946701, AW604440, AI184875, AW578528, BF945235, AW205588, AV720037, AW373059, AW373058, BE706100, BG026120, AC007276, AC009276, AC078847, AC020910, AC008760, AC022143, AC008747, AI117337, AF205588, AL050308, Z98950, AF030453, AC005088, AL110162, AC005919, AC003682, AC009196, AC011449, AC007793, AP001748, AP001630, AL356234, AC022150, AC005229, AL031432, AK022963, AL031846, AC006987, AL031602, AC008969, and AA583226.
HWME044	128	948719	1 - 3170	15 - 3184	AUI37551, BE395366, AI304317, AW873045, AI860936, BF055055, AI394148, AI807018, BE930782, AUI57883, AI131366, BE930853, AA862613, AI377403, AA126958, AI279884, AW473660, AW297366, AI951292, AI801182, AW206733, AA659802, AI127181, AI807789, W75110, AW044562, AI263384, AA626115, AI127167, BF886019, AW474787, AI133858, AW438973, AI478424, AI350993, W23677, AUI39094, H48882, AI784505, AI873664, AA133857, BF478061, BE547913, BF973166, BE154191, BE814299, AI015764, AI520921, AA295407, BF820817, AI826302, BE002337, AI891052, AA310690, R86154, AI718930, AI890831, AW999311, C02402, AA669161, BF094289, AW612303, AA506435, F05073, BF931686, AI056063, AA326471, AW962216, AA485879, BF916803, AA814996, AW995444, AA633940, AA628592, AA514284, AK023661, AI137608, AF038963, AF181119, AF319661, AC010139, AL158824, AC020647, AC004021, AC008179, AL356118, AP001625, AL121763, AL138996, AP001747, AC062033, AP001626, AL359693, AC005704, AC009262, AC004863, AC005686, AL445465, AL158159, AL031073, AC007021, AL034452, AL355382, AK021584, AL118498, AF270569, AC009113, AL158033, AC018900, AC006988, AC078937, AP001039, AC007749, AC009410, AL136300, AC009757, AL359694, AC007455, AL121933, AP001732, AC000392, AC010361, AC005017, AC007363, AC006332, AC012405, AF131798, AC005521, AP001671, AC004231, AL355492, AL022719, AL391818, AF130359, AC005815, AC008177, AC009294, AF212831, AL356954, AC010180, AC006024, AL136501, AC007677, Z80771, AI049833, AC008123, AL138714, AC008952, AC026239, AC008838, AC009365, AC004108, AL163213, AC004078, AC005948, Z54246, AL357129, AL159996, AL121947, AL096828, AC009362, and AI310056.

HFJJA96	129	949001	1 - 1041	15 - 1055	<p> BF793559, BE742939, AW007066, AI869968, AW273225, AI700037, AA443693, AW291991, BE328045, BE747815, AA777593, AI420588, AI033693, AI457222, BF221961, AI954483, AW084920, AI049858, AA203157, AW958390, AW194899, AA777584, N99910, AI150737, N99913, AA379692, BE468258, AA527616, AI458637, AA447078, W25289, BF845179, R80028, BF572256, N75501, AI214958, AI241596, BE799357, F10487, BE736238, BE392003, BE464214, BE391216, BF090234, R79938, R00703, BE735896, AV718692, AW966330, AV707024, AW975618, BE312058, C14331, AV742732, AW964468, AV724520, AV718681, AV705066, AV718489, AW973541, C14389, AV718800, AV699550, N71180, AV720791, D80164, AW978634, AW978648, AV701645, C14429, AV727990, D59467, AV699927, AW966053, AW973445, AW966054, AW960465, AV721644, AW966062, AW960553, AW964477, AV719468, AV720211, AV719783, AV720464, AV719188, D80227, AW966534, AW966022, AW966050, AV731510, AW959062, AV703472, AW966531, AW966041, AV718707, AW966013, AV719822, AW959570, AW966029, D51799, D59275, D80195, AW975621, AV701004, AW966075, AW966065, AW949654, D59502, AW973334, AW959597, AW959799, AW965185, AW965197, AW965175, D80269, AI611738, AW973307, D59610, AV723772, AV742048, AW949641, AV719557, D58283, AV720731, D59859, AV720150, AW959582, AV699447, AW975613, D80022, C15076, AW959628, AW960473, D80166, AW973474, AW973488, AV718931, D59889, AV720203, AW964756, AV718938, AW965158, AV738340, D51423, D59619, AV718633, AW975605, AW978661, D80210, AW965163, D80391, AW973485, D80240, D81030, D80253, AI802240, AV703042, D80043, D59787, AW958992, AV722801, AV719324, AV718440, AV720028, AW956434, AW965177, AW965196, AW965184, AV720878, AV718844, AV718770, AW973482, AW966389, AW958993, AV723927, AW959136, AW964488, AW962082, AW949656, AW949642, D80378, AW964737, AW960454, D80038, AW959202, AI557751, AV744690, AV683513, AI358701, D80212, D50979, D80193, D80196, D80188, AW949646, AW949633, AW966059, D80219, AV720220, D59927, D51060, D80241, AW949658, AV741220, D57483, AW966043, D50995, AW975623, D80024, D80366, AA305409, AW960532, AV721386, AV700889, AV742735, AW949629, AW949632, AW962245, AW973330, AV720812, AW956397, AW949653, AW949645, AW949631, BF089679, AW949643, AW949618, AW949657, AW949655, AI829327, AW966030, BG029829, AW966032, AV723097, AI610645, AW964532, AV742022, C14407, D80045, AW753053, AW966023, AW960570, AW177440, AW959469, AL036954, AW973490, AW103442, AW960504, AW973447, AC011500, AX033851, AX047063, AR018138, Z82022, A84916, A62298, AX047064, AR070327, A62300, AJ132110, AX027925, AJ302649, Y17188, AR072729, S68736, AF058696, AR087649, X82626, AL137480, AX047062, A30438, AX021518, AB028859, AK024594, I48978, AF106657, AR008278, AL096744, AF119865, X67155, AX040974, D26022, AX035434, A25909, AL133072, I89947, AK026927, AF113019, X68127, AK027204, </p>
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HTLGV19	130	949574	1 - 744	15 - 758	AL518685, AU118408, AI392811, BF435451, AA478198, AI435141, AI803046, AA478040, AW206706, AW367708, AA846117, AI928295, AI928292, AK024084, and AF178985.
HMSAC18	131	950257	1 - 1201	15 - 1215	AUI130929, AI814257, BF666825, BF110784, AI935638, AI420022, AA777386, AI554876, BE671069, AI014540, AI688634, AI697997, AI688556, AW297238, AI806683, AW263154, AI589076, AI149951, AA806969, AI741202, W44753, BF515202, AA974046, AA931887, BE763568, AA382865, AW969873, AW614265, AW082158, AA781969, R23772, R09585, AI207121, AA484643, AI538065, AW440609, AI619547, AI088390, AI741925, R09490, AW196711, AI584006, AI702846, AV755023, AI043103, AW959372, AW951170, AB023584, AF228917, AB020860, AK001608, Z47777, A30438, I40401, I25947, U46128, AJ133038, and AR040601.
HAPRB43	132	950475	1 - 2152	15 - 2166	BF338835, BF793959, BG260639, BF971421, BF029896, AI654147, BF132023, AI810992,

AI589186, AA910037, BF727158, AA570707, AI765595, AW188411, AI806437, AI760065, AI809068, AA227446, AW237851, AI337043, AA922182, AA227501, AI050958, AI283160, BE540305, AA227513, AA226738, AA226812, AI470530, AA916642, T89323, AW152530, AV702280, AV702486, AV706734, AV726505, AV703980, AV729597, AV707401, AV727238, AV702832, AV648619, T89959, AV705525, AV727017, AV739017, AV704605, AV728652, AV704059, AV708991, AV701536, AV707088, AV727052, AV728255, AV703972, AV687176, AV702343, AV729366, AV727314, AV706882, AV651897, AV707451, AV709356, AV727103, AV729473, AV726628, AV707948, AV704924, AV727126, AV703417, AV726559, AV702958, AV702671, AV707589, AV705504, AV707420, AV706104, AV706989, AV703505, AV704865, AV707783, AV728546, T94622, AV725031, AV709235, AV727583, AV729129, AV702728, AV725369, AV725645, AV702354, AV702673, AV725497, AV726653, AV702787, AV704879, AV704981, AV707942, AV705234, AV727459, AV725088, AV703090, AV707268, AV727469, AV708988, AV702427, AV729017, AV706683, AV726754, AV704590, AV725321, AV706290, AV683285, AV705814, AV701873, AV705263, AV707640, AV725380, AV703761, AV727355, AV753729, AV655067, AV728455, AV703388, AV708720, AV705550, AV650367, AV702498, AV701728, AV702792, AV706357, AV701832, AV701783, AV706012, AV729220, AV702851, AV706655, AV683012, AV727018, AV701858, AV706220, AV726830, AV708347, AV707649, AV726783, AV707528, AV706659, AV653897, AV709935, AV706964, AV705416, AV725181, AV656004, AV728715, AV724987, AV709273, AV701874, AV704757, AV704592, AV701876, AV725152, AV706718, AV704279, AV726761, AV708809, AV703525, AV705443, AV729242, AV727822, AV647654, AV707798, AV705866, AV645778, AV703214, AV702187, AV652156, AV706677, AV702928, AV701538, AV699153, AV656240, AV725991, AV707458, AV701611, AV704116, AV697638, AV702798, AV705047, AV701879, AV702869, AV704245, AV702345, AV703940, AV702854, AV707794, AV707155, AV706724, AV708872, AV709897, AV704520, AV725920, AV702954, AV704954, AV650843, AV703437, AV702998, AV701586, AV706925, AV701183, AV651704, AV706874, AV725386, AV705321, AV701953, AV728997, AV703232, AV703515, AV728779, AV709733, AV703862, AV706741, AV709494, AV726755, AV707117, AV701496, AV702339, AV647692, AV707311, AV709596, AV702696, AV728523, AA227372, AV703436, AV707171, AV705343, AV725043, AV705312, AV705201, AV709886, AV703030, AV727139, AV709222, AV709244, AV706532, AV706758, AV699156, AV726681, AV729255, AV727562, AV729593, AFI24522, AC004456, AX020190, AR088705, AR091393, AR079804, X81969, AR017907, I18895, A25909, AR062871, AR038855, AX035462, Y16359, D78345, I13349, I66485, I66487, AX008555, AX009712, U94592, A85395, A85476, AX032758, AX028305, AX035980,				
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HCCMD55	133	956895	1 - 831	15 - 845	

AV701782, AV718016, AV717963, AV717983, AV717962, AV718018, AV717984, AV718002, AV717988, AL038851, AV731085, AW970101, H00069, AV717966, AV718023, AV717959, AW969778, AL036238, AV743654, AW975312, AW973241, AW969782, AV700229, AV717960, AL036190, AL036733, AW973393, AW976625, BF508972, AL036679, AJ293456, AW975971, AW976511, AV718681, AW975229, AV701017, AW973808, T23947, AV745917, AW970050, AW972154, AW970540, AW973780, AW969322, AW976515, AW968212, AW968207, AW063533, AV745724, AV742720, AW970070, AV719000, AW451070, AV745723, AV701043, AW971964, AV701163, AW972212, Z99396, AW968347, AW452756, AW973781, AV717990, AV717956, AV701261, AV717972, AW970969, AW975154, AV718858, AW973127, AV745350, AV717965, AW979090, AW972736, AV701431, AW969664, AW970076, AW969653, AW975261, AW969803, AV718006, AV701248, AI535783, AW970079, AW968204, AW970025, AW969794, AW971954, AV742667, AV745080, AV745392, AW974805, AV717970, AW979098, AL037027, AW968148, AW979294, AW973097, BE439760, AW979064, AV740535, AW970053, AV743008, AW970105, AW973772, AW968200, AW972156, AV722801, AW979238, AW969756, AW971975, AW975876, AW970108, AW976510, AW969383, AW971965, AV717955, AL036191, AW979054, AW969768, AW973219, AW975981, AW975173, AW969624, AW970107, AW969648, AV717941, AW968196, AW973164, AW975938, AW969848, AW969626, AV717978, AW975162, AL037601, AW969936, AW979002, AW969961, AW975966, AW968340, AW968190, AW974993, AV741012, AW969934, AW970093, AV742001, AW969916, AV745488, AW970014, AW969621, AV718010, AW968181, AW975046, AW970020, AW973380, AW969634, AW969926, AW971305, AW968147, AW969631, AW975161, AW970084, AW971984, AW976506, AC020663, AR096545, AR073846, AX006816, AX003207, AR062871, AX020190, AR017907, A95051, AR095492, AR080470, AR077142, AX001322, I06859, A18050, A02712, A23334, A75888, I70384, AR062872, A60111, A23633, AR007512, AR062873, AX011024, AX026824, AX026823, A18053, AX009712, A20702, AX012337, A43189, A43188, A20700, AX046357, AR043601, A84772, A92133, A84776, A84773, A84775, A84774, AR067731, AR067732, AR083151, A58522, A91750, AX035462, AR085082, AR085089, AR085091, AR085079, AR085083, A35536, A35537, A11245, A02135, A04663, A02136, A04664, E13740, AX035980, I60241, I60242, I13349, A02710, E12615, AX018504, AR035193, A07700, AX027811, AX027809, A13392, A13393, AX027813, AX030369, AX030368, AX023553, AR027100, AX023548, I28266, AX027812, AX027810, AX027816, AX027817, AX027814, AX027813, AR093385, AR074365, A70040, I66495, I66494, I66498, I66497, I66496, I66486, I66487, AR088705, I08051, AX009487, X68127, AR035975, AR035977, AR071572, AR022240, AC069451, AX026821, AR031374, A49700, AR031375, AX001325, AX001326, AX001323, AX001324, A58521, A58521,

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HKBAL08	134	958219	1 - 852	15 - 866	<p>A1598222, AA722521, AA961088, AW813731, BF953169, T47819, AA297068, Z40359, A1698654, T47848, AW384795, AP001711, AP000248, AL136295, AC004867, AP001748, AL133245, AC004166, AL354720, and AL158330.</p>
HKADFI5	135	960658	1 - 2143	15 - 2157	<p>AL537210, AL533136, BF345427, AW149077, A1189363, BF725380, AI052124, AI972848, AI336302, AI816720, AW192810, AW055174, AI148561, AW026468, AW072848, AI889989, BG163656, AI678779, BF966582, BF349689, AW152007, BF337402, AV733778, AL533137, BF969402, AW964811, AV702560, AV752950, AA411195, AA632007, AI754763, AV725935, AA187659, AA488502, BG012437, AA411095, AA488517, AW380192, W81692, W68748, AV733973, AA128063, AA579881, AA037211, AA488385, AL535898, AW581075, W29006, AI127593, BF958186, W81265, BG000741, AW581079, BE138892, BE856061, W81693, AA479844, AA044753, AA707190, AI005306, AA186718, BF382521, AI128816, AA838684, AA112161, AA937185, AI128549, BE765227, AA488370, AI038838, AW510870, BF590113, AW241743, AI191854, AA634260, AI375760, BE697900, AA946838, AI122640, AI799431, AW150253, AI807683, W67176, BG000745, N39772, AI610621, AI126866, AW088704, W68726, W94696, AI189851, AI423369, AI167706, AI750804, H09725, AW014642, AA682978, AA186659, AI701245, AV725200, W17262, W47107, AI620250, AW085733, AI365999, BF243094, AV745950, AA102171, AW382122, W69696, W84609, AI066654, AA186789, AA188311, AI038848, AI138433, W80472, H10483, T95046, AW005675, R52327, W45606, AI750805, BE714469, AA186646, BG009129, AA705736, AI375026, BG013718, AI742719, AI096392, AA970331, AI189681, H42958, AI831119, R64072, BF726628, AA181038, AA083962, W67175, BE168843, T15745, BF934277.</p>

					AA927755, AA074445, T35729, BF989644, T94312, R69632, AV711339, AA373910, H42889, AI086978, R22231, AW021831, AI200127, AA860791, R70843, AW801877, W60128, AI282288, AI160698, R63703, AI095362, N78832, C18770, F07134, H25800, R52328, AA779133, R69727, AI141372, AA186934, N92803, AI493541, BE074157, AA41966, AI245562, T41231, T52692, T15941, R76911, AA670487, H28629, T52691, BF594227, H26540, AA709438, W80580, AV745873, H75744, R77081, AA548872, BF085005, AA866101, AA737142, AI879858, AI751382, AA055347, BF085040, AA729410, AA377816, AI349098, Z40236, AA128020, BF085041, W60050, AV746593, AA665901, AW074636, R63747, R22703, H23452, H15931, AA479722, C00016, W47231, T95142, T94663, BG001917, T57580, AA853413, R23580, AA853414, AA908304, BF858261, BE767687, AA367100, AA853917, AA349615, AA476373, AA852169, T40380, BF928757, T49076, H16043, BF992287, R45993, T06049, AA340884, BF992295, AA366834, F08513, AA188018, T55354, T34849, R80772, BF992293, W84590, Y07921, E12965, D87258, AR095627, AF097709, AF070555, AX015404, AF097707, AF179370, AF179369, AF172994, AF157623, I74320, AF097706, AF097708, I74321, I74306, A62298, A62300, AR050070, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, U94592, AX047063, AX047062, AX047064, A82595, A82593, Z30183, AX040581, U45328, AX046743, AR025466, T49075, T50999, T51087, T58082, T61154, T63896, R07603, R07604, T80106, R22289, R26453, R28462, R32652, R43408, R43408, R63966, R70789, R80771, R86274, R86275, H75878, N21446, N26329, W25048, W33109, W33110, AA044675, AA055346, AA181932, AA558933, AA613803, AA639432, AA962499, C17153, AA476323, T24693, D29346, F01873, F05610, F04728, T82292, AI245130, AI269807, AI335427, AI367112, AI201996, and AI453252.
HOGESS	136	961337	1 - 1963	15 - 1977	AW182452, BE250716, AI890424, AI640157, AW474326, AW130973, AI056660, AW150989, AI288965, AA242985, AW793562, BE250569, BE465736, AI744015, AI651429, AI636121, R06846, AA251971, AV650220, M91487, AI985781, R06845, AW363115, R02003, BG037194, and C01117.
HKZAJ14	137	961458	1 - 1254	15 - 1268	AW976735, AA883247, AW317020, AI091039, BE349081, BE221788, AI080490, AW009024, AI421443, AI141417, AW838561, AI333982, AW020988, AI332667, AI003921, AA740607, AI373690, AA424587, AA400517, AA972391, AI379240, AA633581, AI370902, AA620797, AA757270, AA909500, AA424632, AI680616, N32107, BE858145, N56779, AI870568, R71439, AI270464, AI085139, R43738, Z41046, AA225666, AI767739, AA502917, W37208, H00748, BF511394, BF887497, AI270546, AW271656, AI791895, AW805578, AA225611, AW370265, AL041562, AI792126, AI299358, R89180, BE671252, AA809663, AW183464, AW838715, AW838708, AL036881, AW029142, BF764614, AA805240, AI872415, AI351544, BE143557, AW299713, AW367344, BF875698, N74449, Z19142, H54493, T50149, D29384, H73186, H90881, AL133051, AF227906, AL021329, AL157406, AL157381, Z83843,

HLHAE14	138	962362	1 - 2040	15 - 2054	AC008551, AL109612, AP001696, AL136455, AC016689, AL109799, AC005204, AL139810, AP000340, AP001761, AC003049, AL135790, AL031054, AC010168, AC004853, AL118496, AC068999, AC005014, AP000217, AC018698, AP000529, AP001731, AP001606, AP001605, AL118507, AL445188, AP002027, AC040163, AC010491, AF188025, AC010419, AC002066, AC007558, AL121823, AL022397, AC003968, AL049765, AC006978, AJ133269, AC007316, Z82194, AP000081, AL133229, AC004025, AF064860, AL161771, AC006287, AP000528, AC007683, U66059, AL034375, AC010627, AC010142, AL158144, AL109931, AC007132, AC005245, AL035604, AL035542, AC004453, AL139115, AL163280, AP001683, AC007920, AL135936, AC016898, AC004981, AC002509, AC006324, AL034369, AL360078, AL121582, AC012087, AL445669, AC011504, AL049646, AC005837, AC005227, AC000059, AC009196, AC009313, AC006265, AL354793, AL137251, AC007963, AL354866, AC007051, AC022203, AL162718, AL121590, AL049565, AC008739, AL139093, AL109919, AL132994, AC006026, AC007157, AB041731, AB020863, AC008534, AC004175, AC008468, AC002122, AL137013, AC008876, AL163218, and AB042031.
					H49208, AL248942, AA358780, H60492, H60446, AL243090, H49394, AP001724, AL031591, AC006924, and AC005234.
HBCJN16	139	965190	1 - 868	15 - 882	AI978837, AL627369, AI564009, AL628545, AL690964, AL538855, AL860651, BF222777, AI683754, AI970793, BF436904, AI812041, AI829891, BF589851, BF032982, AA642553, AI560810, AA470903, AI359026, AI921985, AW664949, AW591110, AI083732, AI818681, AI827128, AI961526, AA125808, AI160064, BE898095, AI564610, AI624988, AI924700, AI278468, AW874402, AA483290, AA858390, NS2182, AI225074, AA766421, AI376593, BE396135, AA830375, AW473661, AI698343, AI986231, AW950982, R89609, H78819, AI540430, R88929, BF691490, AA653492, BE382384, AI424782, AI241315, AI699227, R59708, AI613142, AW473446, AI244930, AW051166, AW193591, AW797434, AA909760, AW242968, BF221706, AI336173, AI923108, BF364662, AA128281, AV733824, AV757816, AC004602, X97966, X14479, X14047, and X72874.
HCGAF29	140	965372	1 - 2309	15 - 2323	AL528207, AU124711, BE745523, BE740018, AU124009, BE730967, AU132736, BE899077, BG261113, AW968672, AW971792, AI492156, AU235604, AI880771, AI697107, AI638177, BF183859, AU148517, AI968089, AI624692, AI378254, BE349453, BF062207, BE505015, AU150234, AU154209, AI922229, AA775806, AW044370, AI086087, AI151386, BG105708, AA423984, AA278565, AI073529, AI203148, AW117988, AW470396, BF827404, BF880196, AL135528, AV681665, BF445663, AA423985, AA481532, AW779281, AU127788, AI567161, AI266199, T93231, AI696723, AI655248, AA916500, AA811605, AI749400, BE927591, AA481598, AA523223, AA431069, AA522577, AI696237, H42013, H42014, T92694, AA743286, BE302733, AA258068, BF939161, AA417908, AA723166, AA418159, AL119399, AL119511, AL042382, AL042544, AL119457, AL043152, AL079794, AL134524, AL043168, AI675778, AI370623, BG166654, AI270183, AI613144, AI521799, N25033, AI368579.

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HAHEF81	141	967634	1 - 702	15 - 716	<p>AL110218, AL389982, AP001666, AK000652, AK027081, AK026528, U89906, AL117626, E12580, AK026541, AK026959, AK025092, A08912, E01314, U62807, AK025708, AK024747, AL161964, A08911, AB052191, AL137459, AX020124, U79523, A57389, AF130056, AK025391, AF054988, AF115392, AK027103, AF131821, AF017790, AK025632, AB044390, AF044323, AF124435, E08516, AF167995, AL133560, U75932, AK024533, U92068, AK000074, AK026571, AF126488, I09499, U83172, U75304, AK027209, AF158248, U73682, I32738, S76508, AF104032, AF130104, E03348, AK026597, Y11254, E03349, A76335, and AR029490.</p> <p>AV683103, BE305206, AW001250, BE305236, AA643098, BF058371, AW054839, AW973518, AI833102, AW083028, AW469562, AI089867, AW134724, BE563230, AI770105, BE798906, AI859283, BE794306, BE727113, AI802405, AA576674, N94517, AI310487, AI367446, AI220318, AW079526, BF431056, AI309785, BE791858, BE736541, BF685650, AA576675, AV700158, AI810441, AA868821, H91632, AV722364, BE305124, AA884876, AA745899, AW406468, BF591335, AI887153, BG025439, AI091509, BE386733, AW083220, BE293628, AA587461, BF877339, AI245325, AI684772, BE250144, AA114265, AA548065, AW296891, AI766800, AA085398, AW071593, AI919368, AA113184, AA886171, BF888965, AA082885, AI611050, AI805079, BF889006, AA305339, AA887298, AV696144, AI352497, AW151136, AL119863, AI862144, BG180034, BG030364, BG031539, AL041772, BF904244, AV655280, AW772685, AW020693, BF038131, BG256592, BF816037, AW268220, AI334450, AW673679, BE904051, AV704696, BG120816, AI520809, BG168549, AI610086, BF970449, BE785868, AL036274, BF814420, BF672397, AI269862, AI610756, AI689379, AI952217, BF822127, BE256437, AW827276, AI284517, AV721521, BE672647, BF968205, AI336633, AW148320, BG031664, AI498579, AV715560, AV760102, BG249582, AI251221, BF854113, AW827289, BG110517, BG164371, BF812933, BG031815, BF341801, BE048071, BE246734, AL119791, AI349967, AL036631, BG036846, BF727072, BE047852, BF338723, BE876033, AA427700, BE047737, AI537244, AI569583, AL041150, AV757639, BE544111, AV645906, BF038134, BE877769, BF792469, BE874133, AI364788, AI335209, BE047952, AI829327, BF812431, AI609592, AL042628, AI270707, AW023590, AI174394, BE880182, BF032768, BF726198, BF339322, AI889953, BG024332, BF826445, BG260037, BG168696, BG034609, AW082594, BF904265, AI349226, AI439478, AW103371, AI468872, AI955866, AI433976, AI500146, BF795712, BG257535, AI309401, BE886728, BE963035, AW268067, BF970768, BG112239, BF856052, AI620284, BF812938, AI524671, AW302992, BF814525, AI570384, AL045500, AI433157, AA572758, AL040241, BG026428, AW946806, BG252929, BF344652, AI636719, BE965724, BF814335, BF527014, BF816455, BF812960, AI539771, AI800453, AI340582, AI800433, AL039086, BG032208, AW071349, AW268122, BG029667, AI340603, BG110684, AI537677, AI445165, AA225339, AL120695, AI282326, AI500659, BE905749, AI554821, AW858243, BE887488, AW169653, AI349004, BE904178, BF885675,</p>
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HBJAB02	142	967807	1 - 1682	15 - 1696	AL529646, AL529645, BE898304, BG112747, BG036058, BF791411, BE392384, BE621757, BE548173, BE895853, BG034671, AA808894, BE901085, BE278873, AW152607, BE795658, AW166898, BG122141, BE782474, BF972826, BE793716, BE140314, AW750993, AA826362,

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HOUCR01	143	968171	1 - 2007	15 - 2021	BF346477, BF970344, AI884801, AA233924, AI125760, H97661, H18098, H19086, AI193252, AI085879, H11343, AL134720, N23132, BF926085, AI671245, BG056879, D81062, AA412275, AA552173, AA503379, R49191, H18987, H19618, R34661, AW590283, F04762, BG056899, BF947363, BF509640, D60732, AI870535, H19253, R07822, H11367, AB046639, and AL109677.
HDTIG18	144	968454	1 - 1566	15 - 1580	AL526279, AL529830, AL524370, AL528814, BE562759, AL529831, BG165233, AL524371, BF685557, AI133513, BE887721, AI057617, BG252265, BE562767, AI982853, AI831623, BE515156, AA648914, AA873629, BE256597, BE222487, AW958929, BF725899, AA280089, AA878448, AW248558, AA744548, BE504278, BE795016, AI304316, BE302017, BE252066, BE295640, AA781577, AI185163, AI955795, AL526312, AI422964, AI571353, AI185152, AA460511, AI313197, BE018406, N32767, AI371028, AI696978, AW439404, AI150883, BE909535, AA447517, AA759128, AA806385, AI335852, AL536983, BF839452, AA459868, AA416893, AI859544, BF512726, AI023406, AA948038, N46869, AI369825, AI128795, W68616, AA025669, AI970652, BF055247, AA934724, AA448500, AI192983, AI167362, W86098, AA864949, BF684491, W69447, AI056657, AW368494, BE265673, AI301282, AA720593, BE695982, AA470054, W72840, W68762, N53510, AI249484, BE540573, AA974936, W69530, AI038444, AA936842, AI348453, AI014303, H98698, AA709334, AA808641, AI312674, AI199491, W92405, BE790027, N81039, AI057225, T03564, AI568703, AA626030, AA973884, AA602321, W00672, H12272, BE259065, AW591539, AA020993, AI368079, BE304909, AW514017, AA670069, AI933159, AV738245, AW058033, AA255941, W35340, T32967, AA568156, AA908647, AA054004, W37082, W46670, W46477, W69899, BF445619, N41767, AI630758, W92406, W86132, AA084553, AA256083, AW172949, AA903756, W72841, AI420992, AA280018, T19225, W69900, AA025668, BE858644, AI160240, BG054803, BE769759, N24265, AV754922, N69042, AW519261, AI475440, AV755645, AW952445, BF432703, AI073732, H80576, AA384632, AA954180, AA977386, AA731196, BE782364, AI546958, AA864850, BF088237, BE769753, AA018468, BE261321, AW661944, Z40864, W07667, AI084547, W37839, T89010, H18524, AI751885, AV744297, Z45130, AA022626, T31441, AW629168, AW362019, R41618, W23741, AA629248, AA059201, H80524, AW149176, F08633, AW368488, BE293875, BE910358, N80003,

					AW797801, AW797860, H84422, N47190, AA912856, BF929993, AI872803, AA477003, AA016236, T35431, BF792937, AA022773, BF927154, H12273, F01896, H84421, BE910534, D25627, AI870539, C20582, AF085362, AB017644, AF003346, AC002524, X92664, X92665, AA059305, and AI475258.
HBLGD30	145	968949	1 - 3937	15 - 3951	<p> AU134073, AU133830, AV648674, AV649343, AV661909, BE439435, BE884067, AV684104, BF130482, AW950668, BG179663, AV720745, AV719320, AU134196, AV658379, AV682989, AI683839, AV734860, AV718561, BF921039, AA219354, AI769578, BE898808, BE971367, BF126657, AI269889, BF574193, BF726784, AV720490, AA741202, AI687338, AU155184, AI302101, AV718656, AI950030, AI889538, AW419072, AA918982, AW088433, AI761095, AI309991, AA281666, AI923375, BE513666, AW006277, AI924724, AA166902, AA402240, AW273276, AU155289, N53433, AU149941, AW015771, AI963654, AI922198, AI458138, AA492037, AA165601, AI128266, AA946849, AI277947, AI343881, AA402701, AW474149, AV652478, AI289226, BE672470, AV682550, AI467936, H04844, AV648804, AA166973, AA171809, AI288268, AW303836, AI823730, BF924128, AA169335, AA769673, AV655147, BE971266, AA165482, AV661997, AI921934, AI358150, AI985661, AV651692, AI277803, AA283660, AA172240, AI812089, AI301236, AI690616, AA171694, AV658439, AI538280, AV658013, AV650229, AV656880, AW193233, AV656493, AV649185, N69299, AV720068, AV650236, AV658487, AV659340, AI064929, AV686668, AV652883, AW839157, AV695293, BE081066, AA661833, AV697695, AA172005, AV657340, AV654764, AV654748, W22608, BE006635, AW950671, H86642, BE065513, AV655339, AI886539, AA953507, AI933892, AV659795, H04754, AV728343, AI194079, AI524590, T68167, AA832118, T69598, AV661653, AV709878, AA333043, AI857292, T71679, T40113, T40914, BE934168, T51148, AW839165, AW118431, BE567199, AW089848, T28653, H86554, AA333248, AW167184, T68242, AW890922, H42697, AA344502, T67818, T67969, T41019, AV652268, AA283661, AW445174, AI926046, BE936564, T69670, R26189, AA344900, AA166820, R46148, AA825794, AA344899, AA527160, BG235955, AA171782, AV652035, AI684991, AI613148, BF571293, AW576487, AV696380, AI648426, BG054975, AI421700, AW050523, AW026809, AW519214, R26437, AA603131, AI301343, AW440530, AA863095, AI479558, AI310961, AW244013, AA172094, AA191647, BE172361, AI933890, BE936569, AI949429, N40513, N50749, AV659135, BF056055, AV661586, AW576821, BE392045, BE065578, BF087108, BF841532, BE065575, BF839027, AW372005, BF837371, BF844137, BF841534, BF155460, BF837360, AW606252, BF087056, BE065616, BF835820, AW383782, AW372003, AW383748, AW372012, AW383775, AW382951, AI909730, M13699, M13536, L33869, AF202115, AF134814, M18058, U49430, AK026357, D00025, X69706, Y12178, D45045, D45043, D45038, D45036, D45033, J05506, D45035, D45037, X04136, D45034, D45040, D45044, X04137, D45041, S77464, D45042, X04138, AF134057, Z24023, AF260927, AF075665, AC004226, AC009242, AJ131017, AF141647, and </p>

HFIHK04	146	969387	1 - 904	15 - 918	AC011327, AI949559, AI810510, AA203625, AW959632, AA702005, AI991043, AW340445, BG251324, AA838409, AI961293, AI160070, AA747429, AI143612, AA730360, AA773195, AA682367, AI298831, AA961230, AI268727, BF793895, R83902, BG236172, BG109845, AA953598, AA704547, AI146455, W38306, N79799, BE933639, AI864592, AA299329, AI140380, AI290069, AI186783, AW440342, BE164467, BE164468, AW139541, T91068, AA514600, AI195913, AA508637, T59891, AW816281, BF874763, D20437, AI288391, AA634125, AW965354, AA195432, BE255866, BE547821, BE741757, BF528086, BG258828, BE903000, AI111193, AI904111, AV728544, BF312864, AA318279, BE251694, C03377, AA310941, AW771668, AW964397, R59429, R98152, BE296575, AA370568, BE746935, BE793656, BE971409, AA411943, BF574705, BF316683, AA780433, T91217, AL523605, AA524887, BE185327, BE185262, BG169979, AA728871, AA328245, AF282903, AL136968, U92032, AL354868, AC012072, AC002074, AC007511, AL135924, AL133332, AL078593, AC007796, AL049874, AC016831, AC013358, AC017082, AF020803, AP001614, AC079045, AL163280, AC007564, AP001251, AP001743, AC004963, AL135749, AF217490, AL450169, AC010849, AC025809, AC009362, AC002352, AL031283, AP001679, AC005998, AC018641, AP001724, AP001669, AL023694, AL356414, AF015720, AC016816, AP001683, AJ229041, AC026409, AC005005, AL031387, AL031429, AL136504, Z98747, AF017104, AC008033, AC008560, AC004068, AC004889, AL035427, AL353748, AL035089, AF248484, AL161638, AL133387, AC018642, AL163207, AC026884, AC008163, AC006967, AC008774, AP000472, AL023805, AC034235, AL163227, AP001038, Z98946, AC005601, AL133467, AL133382, AL050336, AL034351, AC016689, AC007126, AP001819, AC017002, AC004896, AC004048, AP001732, AC037193, AP001711, AC003109, AC006062, AC010498, AC005515, AC002069, AC007156, AC004184, AL022401, AC010305, AC016602, Z86062, AL161731, AL133517, AL121654, AC008042, AC010582, AL122021, AP001715, AB014088, AC004998, AL132633, AC066583, AC005229, AL136529, AC004190, AC025577, AC005738, AL118524, AC006031, AF119841, AL078623, AC004815, AB000882, AP000506, U85196, AP000279, AL136359, AP000516, AP000106, AP000038, AC004968, AF179633, AE000661, AC010723, AL161717, AC008268, Z84480, AL157765, AC004053, AP000108, AC009044, AC005880, AL121898, AF241725, AC008543, AL139189, AC008486, AL356057, AL049844, AL132657, AL133247, AL050308, AC005598, AL117187, AC006337, AC005099, AL031316, AC025030, and AL118505.
HODIL24	147	969841	1 - 834	15 - 848	AL041101, BG177845, BF216023, AA281685, N41356, BF350128, BF211006, BF668757, BF932699, and AL355305.
HE8NQ16	148	970046	1 - 2887	15 - 2901	BF966722, AV706600, BF792757, BF976723, BE882014, AW149468, BF105008, AL138321, AA425241, AV724632, BF033996, AW578056, BF966526, AV746348, BF346432, AW752968, BF338848, AW263259, AI004242, AA037179, AA872675, N29085, BF955280,

					AA69935, AA913815, AA425190, AA887078, W92464, R49087, AV745531, R15894, N42047, BF351126, AW370682, AA400368, N49443, H23382, AV711898, AA400369, AA644429, W21227, BF754252, H96938, AW401928, R86075, W92292, BF846791, N64209, BF891292, BE092775, AA193535, Z25009, AI216147, BF515367, N78483, AV735098, AA453929, AA814891, N93457, AA355548, AA295442, AA978114, AA603219, BE855678, AI825796, AL043824, AW182655, T78936, T08736, AL157620, AA724481, AW752237, AA193438, AI400285, AV701015, AI358866, AA910165, AW351740, BF684919, BE855736, AI432369, AW631129, BE259815, BF087116, AU124620, AU121144, AI978558, T78991, AA55092, N56946, AW665735, AI826826, AA971640, AV704599, AI056732, AL119173, AI038989, BE879922, W92507, AI246684, AI080258, N93740, N20183, AW902953, AA425759, AA486738, AI214476, H67025, AA907233, BF999810, BF885209, AC009155, AK022130, AK022752, AK001688, AB046832, AK024314, and AL137000.
HOFMS34	149	973010	1 - 1006	15 - 1020	BE736746, BE379381, BE378584, BE378500, BE378075, BE515303, BE780958, BE614826, BE393601, BE394088, BE735483, BE392462, BE394406, BE378901, BE394632, BE378758, BE615872, BE388690, BE378357, BE387695, BE563033, BE392047, BE395788, BE394179, BE392832, BE389364, BE389345, BE395181, BE392472, BE515219, BE615406, AA464826, AA453149, BE735871, BE392729, BE387682, BF210381, AA442802, AJ403128, AC007078, and AC004980.
HOF0B11	150	973505	1 - 781	15 - 795	AL533548, BE789099, BG116125, BE887081, BG107890, BF700463, BE880927, BG030517, BF030581, AW957637, BE781717, AV733955, AV710046, AV718270, BF668753, BF669212, BF701113, BF129991, AV714563, BG254144, BE878731, BF701393, AV651776, AA314273, BE568697, BE545003, BF242902, BF666696, AV757896, BE904360, BF978924, BF665580, BF028073, AW351912, BF697317, BF037589, AA305370, BF213439, BF724466, BF241919, BF185721, BF692658, AA306430, BF667996, BE888408, BF964977, BF669293, BF185277, BF700414, BF211541, BF665260, AV707435, AW752399, BF244581, BF541632, BF680798, BF028474, BE960947, BF104162, BF029708, BF667913, BF695497, BF665760, H18045, AV701697, BF381984, BF699689, BF184304, BF185628, BE565642, BF244157, AW630212, AV655721, BE569124, BF131429, AA181455, AA315633, BF132852, BF031301, BF692251, BF668875, BF691021, BE779388, BF213025, AA186625, BF214411, BE568476, BE898217, BF664872, BF690925, BF031185, BF243347, BE958024, W79010, BE865509, BF674472, AA531308, AV714850, AA204997, BF665354, R80694, BF307415, BE567887, BF977109, BF106436, AV755841, BG025945, BE568064, BG029271, BG249184, BF240785, AV682318, AV681563, BE814385, BF214964, H22737, BE168154, BF575790, BF664562, BF670667, BF215015, AA085686, AA001470, BF750591, W55909, BE168394, W20245, BF030440, BF752526, BF693954, BE865807, AA297247, AV661606, AA298432, AA298665, R64278, BF104127, BE813635, BF131056, AA297858, BF184679, W93867, BF757214, AV757484, AV759869, AA298833, BF241923, H21844, H00199, R93867, N25143, AA088796.

HTLHN94	151	974667	1 - 1988	15 - 2002	AA311342, BF688082, BG013959, BF185554, AV759272, AA298837, AA454212, AA431132, AV712434, AA298834, BE092617, H40729, H50262, BF666320, Z45895, AA459602, BF792635, BF248219, A1879195, A1878894, AV746675, T54811, BF700100, AA297310, BF541763, W39740, BF093955, BE504467, W25405, AA297706, A1879578, BF848994, AA297836, BF696039, W28449, BE699018, BE768788, BF768801, BF383084, T10517, BE929505, BF573510, AA447414, BF085285, BF245173, AA192828, BF670186, N26355, BF093978, BE708343, AW364790, R15512, BE929384, BF248439, AF051894, AF288991, AF288992, AL121989, AF288740, AF267986, and AF267984. BE393547, BE740719, BG251252, A1970830, A1478592, AV707783, AV728270, AV706183, AV706724, AV702427, AV727932, AV726505, AV701611, AV704974, AV659189, AV725927, AV706746, AV729983, AV709407, AV726067, AV725369, AV704592, AV728777, AV732002, AA744769, AV753374, AV658362, AV705020, AV702637, AV704916, AV723449, AV702798, AV751921, AV730781, AV751555, AV732149, AV730288, AV731744, AV731313, AV752043, AV731759, AV731708, N90871, AV730547, AV731977, AV757088, AV732155, AV710417, AV728872, AV730711, AV701237, AV731694, AV701320, AV707882, AV730165, AV731915, AV662191, AV726674, AV730171, AV752443, AV746276, AV751573, AV756053, AV761002, AV731043, AV760693, AV730816, AV757887, AV732353, AV757553, AV758481, AV707088, AV656240, AV756895, AV731275, AV733303, AV706910, AV702409, AV702869, AV710534, AV647654, AV726738, AV710938, AV706104, AV711496, AV755874, AV702498, AV711095, AV732653, AV752447, AV732746, AV710421, AV702787, AV758133, AV707686, AV714368, AV707171, AV758003, AV726480, AV702671, AV732089, AV705234, AV752684, AV755714, AV707589, AV703591, AV745906, AV702354, AV706035, AV711567, AV724987, AV727103, AV703417, AV652808, AV755473, AV726392, AV729129, AV702537, AV656004, AV710495, AV723452, AV707948, AV728715, AV730456, AV763669, AV711185, AV646736, AV757673, AV732255, AV702026, AV727189, AV757281, AV705263, AV702954, AV706683, AV746382, AV729357, AV727355, AV652156, AV701783, AV711240, AV726830, AV710146, AV701728, AV763440, AV709935, AV710562, AV725387, AV707690, AV757598, AV709356, AV704924, AV705504, AV725281, AV761270, AV711274, AV710825, AV703012, AV703232, AV709897, AV763171, AV745415, AV704611, AV697638, AV757864, AA453130, AV710375, AV757171, AV710935, AV702958, AV645778, AV650367, AV687176, AV707685, AV704981, AV706662, AV707117, AV706234, AV755335, A1475480, AV701538, AV706357, AV705662, AV728289, AV708809, AV705343, AV729220, AV728884, AV707798, AV757686, AV726520, A1028697, AV729568, AV703367, AV707556, AV745756, AV756386, AV710906, AV706453, AV721645, AV702984, AV706989, AV725386, AV726624, AV706814, AV758022, AV706047.
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AV706851, AV731884, AV701875, AV701499, AV752993, AV727576, AV706891, AV730859, AV706290, AV705047, AV732200, AV701496, AV730866, AV728455, AV725152, AV757671, AV733811, AV652547, AV701560, AV726559, AV704116, AV706220, AV704279, AV725043, AV730018, AV728249, AV705416, AV726754, AV756897, AV733842, AV721318, AV703862, AV704757, AV709025, AV699148, AV758766, AV704064, AV708423, BE907622, AV706527, AV730449, AV727347, AB012955, AX020190, AR017907, AX035462, AX009712, AX035980, I13349, A91965, AR062871, A38214, I56772, I95540, AX026824, AR062872, AR062873, AX026823, AR088705, AX026821, AR031374, A20702, AR031375, AX001325, AX001326, AX001323, AX001324, A20700, A58521, A43189, A43188, AR020969, A84772, A84776, A84773, A84775, A84774, AR067731, AR067732, A58522, A91750, A49700, AX006816, A18053, A95051, AR080470, AR077142, AR095492, A23334, A75888, I70384, A18050, A60111, A23633, AR007512, AX012337, AR043601, AR083151, I06859, AR091393, AR079804, I60241, I60242, E12615, AX018504, AR035193, AX023553, AX023548, AR027100, A92133, I28266, AX003207, AR085082, AR085089, AR085091, AR085079, AR085083, E13740, AX001322, A10361, AX008555, AR093385, AX009487, AX032758, A63067, A02712, A51047, A63064, A63072, AR068507, AR068506, AR073846, AX011024, AX021518, A25909, A35537, A35536, A11245, AR025207, A02136, A04664, A02135, A04663, A02710, A07700, AX027811, AX027809, A13393, A13392, AX027813, AX030369, AX030368, AX027812, AX027810, AX027816, AX027817, AX027818, AX027814, I21869, AR074365, A85396, A70040, X68127, I08051, AR069362, AR069364, AR028564, A86792, AX042372, A85477, A60985, A60990, I66481, A44171, I66488, I66489, I66485, I66490, I66491, I66492, I66493, I66482, I66483, I66484, AB016080, A91754, I66498, I66497, I66496, I66486, AR037157, AX046332, AX001082, I66495, I66494, I66487, AX006821, I18371, AR089207, AR089206, AR089208, AR089205, AX006825, AX006826, AX006822, A83642, A83643, A83151, AB037923, AR035975, AR035977, AR036905, AX003194, AR096545, X81969, A67220, AR072502, AR072503, AR072501, AR095491, AR022240, AR095490, AX006820, AX035632, AX035630, AX035631, AX035629, AX006819, AJ244003, AX046223, A95117, AX033488, AX033489, AR018924, AX033474, AX033486, AR018923, A48774, AX023549, A48775, AR015960, AX023550, AR000007, AR015961, AX006817, A23998, A95052, AX023554, A98767, A93963, A93964, I63120, AR043602, AR043603, AX023555, AX023556, AX023552, AX023547, AX023551, AX023546, AF261960, AF261959, AX006818, AR054109, AR072500, AR035974, AR035976, AR035978, AX006823, A58524, A58523, AF261962, AF261963, A24783, A24782, I03343, AF261966, A81878, AR069650, AX047064, E14304, AR096518, A27396, AX000085, AX042377, AR091518, AX042375, AX042373, A49045, E16678, A82653, E16636, I82228, R50315, R50325, H28329, H94382, N79828, W17091, W38400, A4252866, A4252927, AA740285, AA858387, AA449992, AA824253.

HLDRT31	152	975754	1 - 697	15 - 711	AA84524, AI301704, and AI670928. AL534044, BE393397, AV683465, AV684627, AV689796, R95052, AL036390, AV660907, H56723, BF955572, T82240, R94378, H47159, AL045713, AV692841, H57229, T68625, R29170, H77694, AL046550, H67944, H67929, AW392670, BE695785, AW971745, AW804686, AL119319, AW604723, BE705903, BE705906, AW858526, AW858525, AL119439, AW861944, U46347, AL119484, BE705905, AL119396, AL119391, AL119457, U46350, U46351, AL119324, AW577135, AW384394, AW861889, AW858455, AW372827, AL119401, AW363220, Z99396, AL119399, AL119443, AL134525, U46349, AL119497, AL134527, BF868684, AL119363, AL119444, AL119355, AL119483, AW877209, AL119522, AL039912, AL037205, U46341, U46346, AW604726, BF868687, BF868697, AL119418, AL119335, AL134538, U46345, L11924, I36334, E12495, I84668, I36338, I36332, I36333, I36337, U37055, U28054, AL137798, AL021920, U28055, AB026436, AJ279014, AR066494, AX046357, AR060234, A81671, AR069079, AJ251859, AX030435, AR054110, AR043113, and AR080280.
HWLHW86	153	975771	1 - 1639	15 - 1653	AI718512, AU123914, AI748996, AI951481, AI745085, AI809713, AL525153, AU134222, AW188163, AI721217, AW007667, AW103479, AI828182, AW004850, AI686915, AI628538, AW070523, AI962963, AI697298, BG248600, AI471537, AI635101, AI889467, AI978632, AW860950, AW167961, AW474348, AW190605, BE674290, AI571882, AW129970, AI922593, AL047838, AI579919, AU126920, AW055284, BE869430, AI955311, AW242156, AW272287, AW873982, AI743468, AW513282, AW129586, AW571890, AU117740, AI624711, BE869709, BE870743, AI469222, AI625272, AI684079, AI679591, AW780155, AA424668, AI679333, AW473340, BE047040, AW475082, AI571037, AW029090, AI809712, AA130871, AA528645, AI459465, AW780425, AI540550, AV748643, AA528637, AI024785, AA406196, AU155306, AA411381, BE672486, BF028802, AW591592, AA577525, AI333612, AI687294, AI241214, AI299682, AW473388, BE177710, AW749077, AA483903, AA847578, AA424571, AI889684, AU149678, AA502398, AA580416, AA130926, AW862587, AW820899, AA835115, AI707527, AW075441, BE394676, AI216279, AI579897, AI886530, AI285185, BF038363, AI285353, AA908633, AL525154, AA724605, AI219442, AV748644, AI269213, AI038566, AW769100, BE843159, AW196292, AW361641, AW610090, AI824537, N92767, AA527850, AU144491, AI475347, BE168336, BF034328, AI078813, BE159920, AA443854, BF759422, AI074078, AA846205, AI803815, AI300799, AI689710, AA983659, AI289495, AI022819, AW473456, AA548485, AA554075, AA235136, AW193746, AI538623, W33013, AA158014, W32964, AW578996, AI123271, AA635113, AI567018, AA157929, AA526284, AA113218, W39707, AI702978, AA137210, AW971233, AI364251, AA493629, W15485, AA446644, W19420, W35400, BE720821, W37704, R81916, AA146623, BF673265, AI494071, AW132100, AW951883, AA055858, AI215543, AA158159, AI625623, AI284796, AW971035, AW372994, AA160230, AI362334, BE002725, BE843163, AA234829, AI890170,

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HOFNM53	154	976051	1 - 1576	15 - 1590	
HDPSE86	155	976207	1 - 1781	15 - 1795	BF974829, BE397549, BE397511, BE562264, BF976322, BE561928, BE396546, AW245133, AW001450, AV708281, AW248252, AW247758, AI918591, AI299148, AI741759, AV705891, BF327331, BE718012, BF764942, BF353438, AI583563, AI961410, AI679359, AW081424, AA865519, BG260187, AA807017, AF086713, AF086714, AL137462, AF262962, U31501, AK026830, and X52562.
HHFOE18	156	976216	1 - 1574	15 - 1588	AW964029, AA447232, BE155292, BE706821, W00562, AI752017, AA478880, BE072829, BE072835, H83253, AA377805, H53182, AW175670, AA295304, AA300104, C14702, AA431941, AI378520, AW444970, BF350693, AI127045, AI633683, AI345957, BF002061, AI033307, AI394583, BF349443, AI738683, AI677991, BE072831, AW207729, AI627661, AI274923, AW317022, AI983858, AA478623, AI751620, AI913309, and AL355492.
HHFNH27	157	976968	1 - 945	15 - 959	AL527962, AL517471, AL535489, AL538229, AA608734, AI760012, AW117939, AI038063, BE275287, BF966024, BF182712, BF794346, AV711147, AI992187, AI089408, BE271201, BE515144, BE785567, BG110602, BG028741, AW007641, BE735414, BE622727, AL538228, BE784154, BG108156, BG026353, AI444578, BE735452, BE277188, AW081275, BE562586, AL517470, BG034283, BG177569, BE270977, BF129032, BE730250, BE515135, BE745656, AI911660, AI762510, BE562179, AA573212, AW058227, BG252386, AW026216, BE781752, AV755448, BE780584, BF305350, BG036120, AI479604, BF976260, BE893200, AU126121, BE794959, AA482981, BG026476, BE277036, BE905103, AW167227, BG166075, AL525753, BE513556, BF237575, BE885910, BG028762, BE886434, BE734123, BF309611, BE736636, BE789073, BE878062, BF794656, BE275217, BG249366, AA595496, AA843894, BE612825, BE893060, BF686280, BE887584, BF237505, BF675994, BG113631, BE297840, BF307019,

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HMMBZ81	158	977264	1 - 538	15 - 552	<p> H59173, AL133861, AW131034, C06458, AL042282, AW467497, F34939, BF945995, BF760573, AA526099, AL120191, AI610634, BE149287, AW609312, BG106119, AA744449, AA744465, AA745470, BF853581, AA728911, AU145868, AL022336, AL133173, D84394, AP000509, AC007225, AC021036, AL133230, AC006111, U96629, AL034379, AC006050, AC003029, AL034422, AL109865, AC007619, AC010077, AP000692, AC004896, AC007227, AC001491, AP000967, AF200465, AL121905, AC004150, U78027, AC018755, AC005921, AL035422, AC005003, AP001725, AL022316, AL135927, AL391114, AC006312, AC009244, AC024075, AL138815, AF196969, AC005211, AC004596, AL035249, AC053467, AL136000, AF001552, AL050307, AC004678, AL031588, AL031284, AP001670, AC004962, AC010463, </p>

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HSLGF32	159	977704	1 - 1585	15 - 1599	BE784734, BF528372, AW664953, AW294691, BF670655, AA411625, AA464785, AA971619, AA909175, AA406575, AA256188, AA486336, AI868650, AW276335, AW271701, AI908352, AA488056, R93249, AI864543, T84938, AI282858, H95668, AA256150, RI6409, R12671, BF588476, AI797610, T91956, BE622938, AL042508, BF755924, AL035669, and AL133063.
HEEAH23	160	978593	1 - 427	15 - 441	AL529051, BG168572, AV687207, AW247426, BE249849, AK022736, AB014549, AC008132, AC023491, AC007981, AC023490, AC007957, AC011718, AC009288, AP000552, and AC008079.
HODFU73	161	978812	1 - 771	15 - 785	AI337853, AI290624, BE613007, AW190836, AA036954, AW392096, AW452245, BF039005, BF699641, N95243, T25091, AA036998, AI648608, R47204, AC007392, U85707, U33630, and U33629.
HNBUA49	162	978998	1 - 1620	15 - 1634	AI871477, AL520825, AL525683, BF686227, AL040660, AI049979, BE746500, BG260309, AI051966, AL043088, BF792585, AL041341, BE249840, AI760387, BE273020, BF690244, AA772213, AW440407, AI860755, BF663608, AU118417, BG169576, BE873422, BE378917, AI192298, AI818417, BE293451, AI676150, AI828421, AI827007, AW071445, BE315277, BE293812, AI701967, AI690912, AW151086, AW167306, BE293738, BE250330, BE250827, BF526581, BF972183, AW795577, AW474833, BF527867, BE221350, AA837413, BE858496, AW071494, AW276436, BE260699, AW577804, BE304919, BE222850, AW673333,

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HVVDU73	163	979346	1 - 2290	15 - 2304	BE616124, BE736954, BF688519, BG260795, BG259849, AW374307, BE616155, BE744973, BE292792, AW994447, BG248534, AW374312, AW374318, BE531047, AI940618, AW601821, BE672984, AI817651, AW170508, AA253308, BE868161, BG009649, BF435220, AW365668, AI940653, AW365613, AW081928, AI674909, AW572265, AI961488, AA573938, AI923587, AI940633, AI620321, AW089967, AA636061, AI866782, AI888802, AI457146, AI932621, AI379539, AI186201, AW374300, AI262916, BF739152, AA934750, AI940625, AV656354, AI354896, W60466, AI318103, AI394281, AA588706, AW970628, BF736328, BF883594, BF689168, AW079392, AW369391, AW853512, AW188567, AW188566, BF835784, AA252902, BF736819, AW376365, AI472809, BF836557, AW751488,

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HHESX72	164	979468	1 - 467	15 - 481	BF797761, AU130033, BG258778, AU119794, AW965889, BG028456, BF970462, AV728480, AL522193, AA315962, BE786036, AW960384, AV715388, AU131704, BE695281, AU132895, BF219071, AL536015, BF184112, AU129283, BE729622, BF696698, BG167039, BF034416, BE695309, BE265086, AA319546, H97758, BE544565, W90369, BF332962, AW408349, AI078747, N59486, AA359114, R09724, AW242801, AI765280, AI990488, BE244651, H22047, AA085546, AA091085, AL521415, AI858033, BF111619, BF061858, AA776634, AA359816, N56221, AW602190, AI040358, AI248524, BF792722, T18889, T70782, AW057675, T18872, BF906431, AI633892, AW205883, AW872943, AK023053, AK021905, AC005189, AK023007, AK001665, and AL049758.
HOCY88	165	979547	1 - 1395	15 - 1409	AW004023, BF690205, BF791885, BG029479, BF000545, BE047000, AW977945, AA909986, AU151274, BF512375, AU147671, BE350857, AW467591, AA142943, AA811324, AA150646, AW468491, BE672409, AI301026, BF689816, AW845190, BE392310, AW514680, AI984280, BE140523, BF229544, U53081, D20997, AC006544, AC003065, AC005033, AF035299, U70987, AF180527, and AF229166.
HOGDC64	166	979666	1 - 1794	15 - 1808	AA868550, AL530411, BG254611, AW954131, AI201166, AW193909, BG151533, AW084462, BF791908, BE260095, AI922273, AA523858, BG260949, AA781100, AW105220, AA596049, AW005327, AI214604, BF984366, AI802642, AL524639, AW090564, AI567735, AA897529, AA193192, AA629069, AU147852, BF979856, AA858423, AA425360, BG149247, AA908794, AA778624, AI686401, AA393835, N72685, AA868129, AA923361, AU148101, AW183908, BE206598, AA075361, AA580324, BF743368, AI357135, AA926834, BE670517, AI803714, BF197076, AI284934, BG116362, AW983892, AI284936, AU154733, AI130025, AA758676, AA907260, AA311449, AI077310, AI298616, AA706885, AA969247, AI457308, BE045930, BF743297, AI418560, BE219395, AL043460, AA861359, AI720212, AI342423, AA468338, AI936296, AA075362, AA454947, AI458647, R37961, AW246825, AA136701, AW607431, BF743315, AA548507, AA973365, AA053135, AI659588, AI925822, AA425566, BE439633, N68585, AA834427, AI635130, AA167347, BG164125, AA431980, AI264546, AA431965, AA176535, AA748183, AW750653, AA989525, BF223350, F31676, BE253169, AA468339, AW950325, N46268, AA769323, AI985073, AA994254, AW470425, R53597, AI621110, Z24883, AI285063, W81103, AW090765, BF957740, AW628661, AW592166, BF767591, AI703044, AA385660, AI860560, AI202413, F30676, F32050, AA564380,

HSIEA14	167	980139	1 - 774	15 - 788	<p>BF746952, AI825239, AI968137, W79734, BE873411, AA287653, AA115881, R85239, AI744073, AA167348, T86533, Z38604, AW770643, R51927, AI202295, AA179037, AW270665, AI264373, BF798526, AA053156, H42012, AW444498, AW352219, BF333672, AA085898, AA470660, AI758554, T31099, AA534699, AW804206, BE070180, N46267, N90395, AA115880, T86441, AI468196, H42011, AA534699, AW804206, BE070180, N46267, N90395, AW844155, AA090750, AI675960, BF247759, BE349924, AW387224, AW388763, AA916893, BF743292, AA085897, W02464, AW389016, AW388799, AA736580, AW388788, T78373, BE709036, BE782320, AI952913, BF374837, BF374374, AI133347, D19952, AC003950, X97335, AX017488, AR023768, U95146, U95145, AF068202, and AF113698.</p> <p>AW301736, AL042667, AL042670, AV695478, AW328202, AW238341, AI538491, AA569494, AA572983, W42588, AI278972, AL120141, AI821382, BE042006, AI307201, AA501461, AA837597, AA514450, AV761433, AI753969, AA613761, H68343, BE139139, AI250552, AV648653, AI284543, AW020612, AI689198, AV656063, AW613448, AI005613, BF917473, AI254770, AI744830, AI820534, BG030789, AI251284, AI251034, AI251203, AI223626, AI249853, AA526099, AW023515, BE138387, AA602105, AI798407, AI439393, AI690497, BE169870, AI692245, AI133519, Z83819, AC002350, AC021036, AL031733, AP001706, AC005844, AF017104, AL157372, AL117341, AP000073, Z84487, AC007282, AC011742, AL022336, AC019106, AC008011, AF049895, AI109797, AP001710, AL160231, AP001759, AL137073, AL391114, AL049713, AL133454, AP001683, AC058791, AP000104, AC007880, Z93341, AC011904, AP001714, AC008738, AC016689, AC008543, AC009225, AL024507, AB000882, AC006449, U96629, AP000344, AC007225, Z98946, AL050333, AL049838, AL121782, AC004491, AL009181, AL035249, AC005064, AL121825, AF205588, AC024082, AC009060, AC005663, AL121949, AC007546, AF107885, AP002530, AC011500, AL137060, AC005969, AC005216, AL031848, AC005291, AL133453, AL353802, AL078591, Z98742, AC002418, AC004386, AP001728, AC013429, AC018513, Z83843, AC002303, AL139826, AC005703, AC008008, AC003042, AL033381, AC005332, AC007938, AL121872, AC006121, AL138755, AC073574, AC011311, AL139109, AE000658, AP001725, AL138828, AC009236, AF196971, AC002429, AC009016, AC012156, AL157791, AC004847, AL109743, AC006160, AP001712, AC007486, AL157413, AC005352, AL109923, AP000692, AC005386, AC004977, AL034550, Z96050, AL360227, AC000004, AJ229041, AL121878, AC008267, AC025442, AL117333, AL136979, AL050317, AC008750, AL031681, AF027390, AC004743, AL008732, AC009501, AC007690, AC005562, AC078889, AL355886, AC009238, AC005214, AF280107, AL121852, AC009470, AC007773, AP000352, AL031685, AL136365, AC005821, AP001720, AC020898, AL356379, AL049760, AL049776, AL441887, AC010219, AC003992, AL138752, AC012351, AC012309, AL080317, AC002381, AL035458, AL031289, AC003662, AC036103, AC007312, AL445687, AC006120, AC024600, AF241726, AC005358, U80017, AC004859, AL133153, AC027689, AC005069, AC007376, AC009953, AC018684,</p>
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HSFSY43	168	980269	1 - 2040	15 - 2054	<p>AC010363, AC007868, AC004833, AC004000, AL031427, AL022318, AC007240, AC003108, AC010328, AL132777, AC007542, AC006455, AL157827, AC006001, AC007637, AC007262, AF015720, AC006996, U91323, AL158167, AC004745, AC074331, AL121585, AC006372, AC009455, AF190464, AL035555, AC022493, AC003029, Z84474, AC016543, AC027644, AP001660, AC008518, AL391259, AL049834, AL121652, AJ239323, AL163853, AC002289, AC005488, AC004887, AC005690, AC007000, and Z98950.</p> <p>BF570385, BF570180, AI088647, BF966694, BF569195, BF970112, BE878705, AL535894, BF569896, BF340266, AI810738, BF530956, AV725665, BF342973, AI692873, BE271105, BE857228, AI927745, AW615420, AW151706, AA604247, AI635900, AW939256, AW957194, BG230571, AW379494, BE677698, BG056692, BF512850, AW021444, BF690190, AW664391, AW139560, BG110726, AW874658, AW993371, AI814903, BF934595, AI181281, BF381326, AI376165, BE812324, BE812388, AW815353, AW391289, W28891, AV728400, AV728587, BE349042, AV728581, BF325900, AW337194, AW024107, BE396023, AA633395, BE162632, BF527023, AA588810, AA280897, AA225306, AW391295, AI079706, AW815349, AW615553, AV709840, AI355025, AW815345, AI933698, AA804867, H40915, BF886757, T28873, AA838292, N81045, AI880159, AA114109, H28176, BF961849, AA324213, R59225, AA683224, AW469170, BG057112, H01864, AW880763, AA937395, AI358224, W28580, AW246848, AA324217, H11123, R94484, BF874169, AA085617, BF928701, BF874235, AA085638, N36164, BF874174, AA324212, AW498678, AW067997, AA062605, R94485, BG025843, AA134213, H49769, H27022, BF805105, BF957582, AL535893, T16201, BF934521, AA350507, H20777, BF932804, AA280980, AW798119, H11229, AV737823, BE206328, AW248633, AA363975, W27715, H22592, BE833306, AA324216, BF447502, T15660, BE833364, H28112, H01863, R86196, AA487774, AA114108, AW385117, D51308, AA350426, H17100, T60117, D56054, R48122, D53610, AA304177, H93755, BG152466, AA826966, H61236, H85695, H40957, R44085, D51453, D53774, W07855, R78317, BF868560, BE714884, D54618, T52550, BF923220, R33264, BE208564, R36346, AA531190, R23239, T16142, F03239, R77946, AI699038, AA308600, R38937, R69514, BE812147, BE315213, AW058016, R33115, AA531179, R48009, AI867014, T03351, BE833265, AA307648, BG015610, AI906574, BE561639, AA350885, BE271301, BF445731, AA327459, AI906575, AA335642, BF803379, R28604, R48570, H30153, AW945153, AA350733, R28687, D51827, R50396, BE707678, R48669, H61237, BF844403, BG055063, R35977, BG252221, BF926656, T60235, BE833079, H93754, AW883909, BF753805, BF445655, D52027, R69383, AW298249, BF844409, AA317457, D51335, BF844405, R46848, H30776, AA747462, AI583318, AW800460, F10359, AA345500, W23224, R44794, BF844410, R42513, AA809531, R47759, BE019728, F07289, AW950062, BE771559, N44157, AA373489, BF093102, AW885353, N69784, AW885226, BG007722, AI358239, BF771401, R23314, R28550, BF933179, AL110273, J05243, U83867, X90845, J04828, X86901, AF084186,</p>
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HSXBH24	169	981029	1 - 2428	15 - 2442	AI052508, BE048691, M79221, AW338514, AI262660, AA953663, AV726620, BF752825, AA813125, and AI373503.
HOFAB61	170	981108	1 - 1219	15 - 1233	BG033389, AI393309, AW005351, AI807923, AW960185, AW166132, AW664889, AA194090, AI916382, AI799077, AW328387, AW340414, AW960398, AI131240, AI188081, AW300307, BF131508, AA855025, AA287690, AI694793, AI138878, AI362805, AI198516, AI131388, AA287658, AW139698, BE551852, AA934428, AI701814, BF056959, AI824988, AI680753, AW328388, AA308513, AI654495, AA304908, AI955554, AV741520, BF111228,

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HCFOF82	171	981272	1 - 1549	15 - 1563		BG026326, AW966939, AW967551, BE737753, A1435412, AA250982, AA811466, A1376343, A1081045, A1742225, AA131095, A131031, A1942351, A1341938, AA489627, AA993407, AA489728, AW473525, AW268683, R91619, N989236, A1085828, BF082425, A1168315, T78254, AA250983, AA320897, AA454806, BF935477, AW380400, AA864917, W31152, AW514550, BE003760, and AL133558.
HOCMT79	172	981309	1 - 1580	15 - 1594		BE798445, BE304432, BE731636, BE897199, BG255861, BF979006, BE812965, BE728469, BF128024, BE263640, BE727056, BF358932, BE206746, BF942861, BE540525, BF311992, AW362926, R67305, T33893, AW945345, Z46204, AA324589, AW965329, AW965323, AA324404, T80030, H50913, AA281511, AA333367, BF381111, BE816128, T08567, BF991518, R18797, AA332977, AA687499, BF946438, BF822854, AA223464, BE796302, BF917604, AW392506, AW601333, AW372325, AW601316, AW601334, AW372336, AW392504, AW392498, AW372308, AW372323, AW601317, BF725792, AR087892, U32575, and AF055006.
HKAEI03	173	981319	1 - 452	15 - 466		BF342305, BF972034, AV702899, BG250659, BE875013, BG255188, AW732994, BF969129, BF973001, BF130310, BE779851, BE268549, BE783925, BE272577, BG024907, BF127762, BE784922, A1751567, A1138643, BG027985, A1564787, A1131276, AA010288, BE464595, BE858428, A1810680, BE256739, BF431981, A1312112, A1659460, BF964885, BF038601, AW614586, A1918066, A1421103, AA159852, BG036944, AA143643, AW131612, AA577070, BE170902, AW418672, F29120, A1885777, A1540181, A1889585, F36716, AB037839, and AF006043.
HOCPO31	174	981593	1 - 1686	15 - 1700		BF344523, BG120897, A1928341, AW026244, AL119974, AW003141, A1953528, AW004077, A1803375, AW001409, AA716616, AA425741, AA677488, AW594550, A1193181, BE349215, AW795298, A1262269, AW297973, AW592480, A1042286, A1436208, A1126751, A1149281, A1167937, A1187153, BG006418, AA885372, N53016, A1962663, A1143577, AW242268, A1049776, BE677119, A1818483, A1272839, AA595397, A1032066, N78497, A1742227, AU134204, AA938952, BE041590, N73656, H00225, A1187185, A1986359, AW152033, A1032073, A1302095, R77880, AW128839, AW594571, R94775, AA806624, H24559, R64451, T09483, R94950, AW957178, A1252768, H17531, AW193712, AA057787, BF061972, AW296092, A1435183, H00177, AW340042, AA535123, AW079257, AA834425, AA595382, AW662791, A1949751, A1968910, A1806704, A1954639, R34244, H21209, AA047604, R94693, F10899, R35571, H22912, AA425233, AA931668, R63839, R39530, T77481, BF357906, AW401504, R55754, BG058398, A1802542, A1440239, BG110684, BG179993, A1869367, BF527014, BE048026, BF725868, A1036631, AV715331, AW071417, A1500077, A1269696, AV650703, AV682479, A1758437, AW087445, AV715263, BF868489, AW071349,

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HAOTG88	175	981606	1 - 807	15 - 821	BF316070, BF568141, AV758470, BF527619, BE314804, BF969586, BE409471, BE410535, AV733489, BE261170, AW157185, AI928869, BF304497, AW024568, BF971396, BF310503, BE296966, BF980412, BE408549, BE884399, BE386397, AI907018, AW440484, AA883920, BE793077, BE794471, BF206989, BE877585, AA496679, AI378856, BF311371, AI859291, BE350719, BE895663, BE885969, BE315547, BF241672, AI817825, BE793139, BF210205, BF216772, BE733918, BE897650, BE312906, BE905785, BE879978, AW516581, BE382725, BF038020, BF026271, AI624337, AW732541, AW674196, BE262376, BF237436, AV710278, AV740622, BE899283, BF206520, BE276874, BF206851, BF237515, BF243039, BE313650, AI024995, AI174779, AI572642, AW163157, AW651789, AW732534, BF125793, AI025126, AI474128, AW474610, BE547663, BE831015, AA187250, AA877228, AI267915, AA886988, AV733930, AA182921, AA642996, AA306692, BF126019, AV741980, AA075599, BE263229, AA181154, BE831027, AV756250, BE205781, AL526932, BG118384, AA075346, AI929036, BF734890, AI400538, AA316049, AA181153, AA526075, AA315701, BE709954, AA098806, AV727129, AA130645, BE218789, AI421479, AA482798, AI144352, AW022366, BE871748, AA451691, F36272, AA722490, AI015274, AI860627, BF767068, AI476031, AA196855, AI076945, AA601896, AA603149, AA037796, BE792238, BF674456, AI266715, BE932205, N53005, AA307818, AV727405, AA125759, BE710240, AI194072, AV764534, AA210871, AA130034, T74180, AI985806, BE709957, AV735365, AA070953, AA714540, AA453235, AV744480, BF030579, AA130033, BF239974, AA443652, AA385659, AW583010, AW675307, BF966331, N52289, BE045155, AA130615, AW277116, BE645844, AA912073, BF184415, AA856876, AA478103, AW276117, AL527098, F25881, BG117430, AA065190, BG028557, H49982, BE005862, AA187382, AW270600, F24478, BE792009, AA076185, BF091615, AW371216, AA725739, AA878729, N30376, AA365073, AA602423, BF091064, F24829, AA484666, BE870423, AA885827, AA745043, BF091625, AA156093, BE044822, BF375830, AA398035, F27966, F34663, AA861214, AA085547, AA371299, AA992886,
HVCAH21	176	981768	1 - 746	15 - 760	

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HFPCK56	177	981812	1 - 1934	15 - 1948	BE739833, AV751551, BE339375, BE879961, BE619356, AA012925, AI690904, AA418407, AW028084, BF061035, AI949671, BE219361, AA449061, AI955218, AA772167, AW771435, AI305287, BG056669, BG122658, AI039957, AI796800, AI421026, AW952787, AI689738, BE857334, BE797251, AW373177, AA037175, AI680796, BF001323, AI360089, BE440106, BF438532, AI568970, BF223290, AW299760, AI948837, AA418504, AA410416, AA976077, AI925315, N56916, AI744545, AI186166, BF344446, BE545371, AI801467, AI560863, AI307790, AI620925, AI685502, AA931566, AW589991, AW373172, AI094972, H22670, N44951, AW026324, AA772572, AI049895, AA449773, BE876258, N39575, W27237, BE878083, N33168, AA469378, AW028003, AA402063, AI276817, AW803238, AA351859, AA861181, AA938412, AW079992, AI311559, BF907727, H96974, AI888644, AA151221, AA351860, AW139343, AW130580, W32509, AA937530, H22687, AI813495, AA410273, AA993422, AA687549, BF941191, AI143750, W27206, AW373182, AA340324, AA044269, AI860157, AA151220, AI370443, R48542, R53630, HI4486, AI271975, AI140110, AW593928, R12193, AW275061, W93548, AA321771, AI611136, W32606, T66931, BF941785, AA758353, AI581671, R48627, AA398924, AA349145, AW138501, BF527602, R96451, AW515323, AI674456, N59828, AI918973, R96452, AA991280, AI985395, AI687472, AI268792, AA338948, BF747204, AI280425, AI370507, AA991278, H27505, AA142905, R12929, AA410417, AI284737, T83253, W27541, AA364215, BE719110, AI880036, R62328, R51963, H27578, T66932, AI961564, D54538, AA847693, AA338947, BE538557, T49336, AI360057, BE939130, AI351186, BF818515, H04226, AA044169, H02921, AA026556, AA069380, AW138557, R62327, AW118418, AI198091, W96350, AI424187, R39917, AI868856, T10481, BE964453, BF507638, AA847337, BF735896, N72776, T90723, AI873143, AI682149, AI419753, AI472343, AI394598, AA436364, AA652885, T49337, BE002485, N46721, BE620017, BE622776, AI335238, AI810464, AI927142, AA069327, BE787445, AI078649, BF987031, T11055, AI564318, AX015375, AL162074, AB042237, and AF099664.
HAOSI58	178	981859	1 - 1131	15 - 1145	AL515972, AW029556, AA004208, BE883613, AW015902, BF802700, BF666138, AI917287,

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HOPIT48	179	981862	1 - 336	15 - 350	F20667, AL514627, AL036146, AL513553, AL513597, AL513907, AL514919, AL513999, AL513631, AL514015, AL513911, AL514791, AV755668, AL514691, AL513977, BE965014, AI475817, AL513951, AL515191, AI469532, AL514087, AL513693, AL514867, AW085799, AI349772, AW074869, BE887488, BG109270, AL513713, BF793187, AL514063, AI500077, AL119748, AL514473, AI696846, AL514983, AI367632, BG112879, AL043326, AI702406, BE047952, BF793324, AI888953, BG110241, BG036846, AL515413, AW071349, AW071417, BF970446, AI537303, AV681618, AI349645, AL040243, BF817926, AI432969, AI800453, AI800433, BF882343, BG058398, BG179993, AW169653, AV682222, AV681630, AI521012, AV682252, BE969709, BG257535, AW169671, AW827249, BF883916, AI340582, AW301409, BG110684, BG260037, BG180996, AL045500, BE965891, AL513577, AL047763, BF816811, AW274192, AI620284, AI758437, BF812933, BG058208, BE048071, AI637584, AI349004, AI536685, AI568870, AI499463, AI249257, AI250293, BF970162, BF724691, AV756150, AL121365, AI702433, AI433157, AI224992, BE018334, AI580190, AI590128, AI868831, AW103371, BF792469, AW104724, AI682841, AW087445, BE781369, AI633419, AI538716, BE966388, AI498579, BF039003, AI866002, AI802542, AI433976, AV756328, AV729890, BF795712, AV709517, AI445025, AI564719, BF971016, AI349933, BG031815, AW238730, BE964812, BE964741, AI348897, BG168696, AV717299, AI697137, BG178488, AI497733, AW999049, AL036802, AW026882, AL044207, BG110517, BE964700, AI866608, AW162071, AI281773, BF812961, BF527014, AI539771, AL036396, AL036403, BE048081, AL135661, AI281779, AI570384, AI857296, AV757737, AI678302, BG151247, AW813006, AI269696, BF817392, BF343172, AV711924, AW148320, BF340031, AI275175, AI281762, AV756703, AL047041, AL041772, BE963035, AI064830, AW074993, AI567351, AL038605, AI349614, BG164371, BF726322, BG032208, AW089572, BG260881, AL038778, AW268253, AI282281, AI312152, AW075351, AV758209, AI345735, AI610645, BE047852, AL514097, AA640779, BE876033, AI349937, BE172767, AA613907, AI619502, AI500659, BE964876, AV682266, BG252929, AV681759, AW068845, BE909398, AL513943, AA508692, BE047863, BE904178, BF885675, AI620868, AV655645, BE877769, AL515019, AI636445, AI340519, BG178809, BG035511, AW148716, AV756342, AL514793, AI273142, BE965556, AI818683,

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HCFVAV61	180	981914	1 - 1221	15 - 1235	BG033901, BG252785, BE543055, AV722449, AV702154, AA628439, BF668342, BF692352, AI768330, BE894056, AI743632, AV694035, BF437204, BE856844, AW304160, AI337885, AI924514, AA837493, AA426551, AI745073, AI963737, AW821215, BG058671, BF509387, AI242029, BE503709, AI942469, AA160524, AI160326, AV725848, AI912616, AA890454, W95882, AA824442, AW518009, AI701598, AI273641, N93250, AA287410, AA418905, AW449609, AA160567, AA703542, BE671219, BG105483, AA779451, AA111935, BE669882, N32408, AI332415, W17057, W25108, AA810170, AI382034, AI499772, AI589724, AI720736, N56828, W95918, AW022386, AA083712, AI808404, AA777136, AI806090, AW965046, BG105254, N89643, AI467879, AI247254, AI784644, AA725064, AA343169, AA569724, AA694506, AI698201, BE542567, AI244592, BF218794, AA287358, D80112, AW973029, AI206216, AW965048, AW889223, BE843684, BE843522,

HPDWN44	181	981956	1 - 934	15 - 948	and AK000541. BE742303, BE741533, BE746369, AI633237, BE563341, BE563526, BE612816, BF035914, BE880068, BE563212, BF665918, BE880096, BF970136, BE880701, AL529261, BF037170, BE315481, BF316680, AI017752, BE896668, AA431844, AA628903, BE880590, AV710748, AI525834, AV716869, AV733974, BE567737, BF674943, AV713981, AI979057, BF698464, AL529260, AW514732, BF033091, BF674985, AV711087, AV716715, BF540803, BF675525, AV713390, AI935983, BF679768, AA075421, BE613381, AA156298, BF673731, AW088688, BE389957, AV735167, BE389745, AA187073, AW474971, AV740643, BF691116, AI133571, BF195619, AI684301, BF677505, AL525452, BE042822, BE709657, AW936512, AW474519, AA992934, AW189041, BE042854, AI984117, BE276272, BE393478, AW474473, BE388363, AW131622, AV734097, AW196629, AI913944, AA427596, AA187024, N30130, BF217503, D82271, AI191868, BG235916, N39749, AI923021, BG112356, AV713265, AA075422, BG259987, AW404378, BE813241, BE813177, AW149049, AW369486, AV726476, AW369495, AA442647, AA669065, AI367852, AI633284, AU132643, AA081139, AI554354, AW951432, AI560878, N25849, AI416993, BE176663, AW074176, AA446705, AA496549, AW512858, BF094963, AW991489, AW991644, BE813140, AA315748, AA878888, N23559, W19707, AA729416, AA621292, BE567961, N36654, AA069715, BE568443, AA493626, AA069692, AW938005, AI187152, BF732743, BE176346, AI185034, AW166402, AA593797, AW385485, AA186648, AW021630, AA437347, AI221791, AA630449, AW937966, AA081278, BE122891, AA436888, BG167398, AA156984, AI312688, BE875189, AA316034, AA316517, AA479768, AA181039, AV733234, W52260, BE176396, BG012035, AV750759, AW264168, N24368, AA631420, AI923459, AW363902, AV703750, AI198050, R98410, BE179786, N59644, AW069390, AL047606, N44880, AI686995, AI090375, AL525651, AW796539, AV654997, AA187522, AA229717, AA429684, H16005, AW994708, N35742, AA628994, AA630441, AA977956, AW798571, AA847636, AI074223, AI034134, AA583504, AA782407, AI291901, BE710000, AV711820, N77857, AA993826, BE536583, AI568185, AI434356, AA169685, H53260, W05819, AI367001, AA757584, AA156678, AA317301, AW582891, N42163, AW378113, AA230074, AA335935, AV651342, AI719389, AV712994, AW378105, BE716145, AA335859, BE707628, AW378118, AA281403, AI312689, AA581804, AA432128, AA335879, AA890245, N35687, AI674105, T50033, AI085540, BE697023, C17051, AA384518, AW378101, T93581, AA912450, AA361889, BE840484, BE169354, BE707639, AA446578, N44791, AI687083, H85400, AA923554, BF091266, BE840494, T86063, AA641500, R66319, AC005479, X67698, U25748, AI18921, X78134, S77411, X85799, AL133076, AL122101, AL133655, AL133020, AL133053, AL133074, AL133049, AX040958, AX041002, AX040974, U30290, E13998, AR015970, M37278, AX030435, AX015526, AF126531, Z69719, AF002985, AR055519, AR034821, S56141, T92154, T93222, T94671, T89488, T89660, T83699, T85048, R01007, R25764, R33756, R39758, R62496, R68141,
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HOVJY54	182	982032	1 - 1118	15 - 1132	<p>R74261, H15768, H42468, H42681, H43449, H60096, H69969, H71589, H85394, H98245, N28549, N40132, N40844, N54906, N78197, N99645, W32944, W38819, W46910, W56106, AA025797, AA031691, AA035536, AA130026, AA149910, AA157483, AA281356, AA532481, AA603556, AA610276, AA617732, AA627954, AA837359, N85557, AA431114, AA708116, AA725139, AA845939, T11351, A1244072, A1308158, A1220771, A1632782, A1859690, A1811046, A1950900, A2025993, and A2055299.</p> <p>.AL536886, AL519771, BE903122, BE906714, BF981167, AL529998, BF980868, BG110444, BE906350, BG026745, BE733132, BG118469, BE908645, BE281012, BF527761, AL529999, BF204049, BF527895, BF338699, BF527959, BE896386, BF346362, BG179270, AW373882, BG121683, BE902906, BF339518, BF528481, BE795781, BE797253, BE264544, BE793598, BE799039, BE395716, BE904642, BE798297, BF129057, BE909217, BE797464, BE791245, BE798589, BF317485, AW577397, BE259895, BF337918, BE798842, A1366141, BF345330, BE793570, BE254266, BF689031, BE387799, W48799, AW249723, BE736728, AA121648, BF915406, W79098, BF058087, BF434845, BE266716, AW245243, BE275433, AW965510, A1420864, BE501218, AW958156, N30494, AW166500, BE274757, BE362577, AA523509, W74502, A1421445, BE274734, BE542936, AA076659, AA309806, AA602391, AA947286, BG056181, AW148931, BF827786, C14268, N99361, A1367349, BE266342, N59225, AA335673, AW518636, BF750898, AL120945, AW137008, A1936982, A1916893, AA335414, AA336127, BF338054, A1769470, A1337000, AW206563, W31030, A1419527, AA371822, AW006577, N98776, AA335239, N76692, BE645990, C14269, A1572122, A1368200, AA641497, A1634762, BE150214, A1684498, AA827390, A1217398, BE150209, W49625, A1081813, AW206959, AW607363, BE743774, AA725340, AA079566, A1672387, N34422, A1766926, AA478173, N48657, T11147, A1365401, BF221855, A1950175, A1813446, BE466923, A1382536, A1382559, AA659150, A1420810, AW900866, AA357437, A1365511, AA478017, A1800023, BE673470, AW615779, AA773507, A1362447, A1242987, AW183593, BE673583, A1399691, A1738446, A1243140, A1659508, H16643, BF438348, A1651868, A1805041, A1568339, A1823968, AW451053, AW137813, A1927588, AA631086, A1699620, AA077819, and L07392.</p>
HLDOG74	183	982042	1 - 870	15 - 884	<p>BE741661, BE733571, BF685462, BF984053, BE745150, AV686105, BE792465, BE901550, BE515104, BE884515, BG033955, A1052336, BE312803, BG178966, BF794342, BG036584, BE544000, BE746597, BF337890, BF038967, BE264172, A1831045, BE874094, BE910663, BE733667, BE264374, AW170205, BE544180, BF127998, A1309846, BE539160, AW160727, BE787749, BE787345, BE271779, BF667331, BG257671, AW157143, AW440255, BF205294, BF183127, AW583332, BE784901, BF671774, BF115955, A1857442, AW583701, A1560800, AA582176, BF244048, A1824142, AA485962, AW025617, AW516053, BF204148, AW439339, BE786757, BF667242, BE278628, BF130358, BF030011, AA854126, BF219377, BE271039, BE855730, AW513598, BE297318, AW439387, AW162222, BF297859.</p>

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HE8MM52	184	982197	I - 2789	15 - 2803	<p>AV651781, AW965446, A1623305, BG105418, AV695144, AW500557, A1962601, A1816919,</p>

					AI809660, BG180470, BF238787, BE958617, AI453203, AI686764, AI051938, AW008755, AI671303, AV696246, BF574073, AI624404, AA599814, AI862650, AV752796, AW088764, N49595, AI373326, N46907, AA630029, AI076703, R52979, AA682606, N66860, AW504901, AI637810, AI804504, AA635074, AI216350, AA761707, AW975470, R61617, BE144059, H04056, R13437, AV655299, AA806300, AI565337, AV690970, AV683075, AV661993, F05802, F05782, AA688425, BE093642, T68530, R0949, BF216998, T98033, N93069, AA332693, T98114, BE969752, AI377881, AI927670, W24722, AI767039, F08707, AV682040, AV681756, AV724929, AI119139, AV661953, AW805670, AI670931, AW276928, AI913173, AC026439, and F08205.
HJBCC19	185	982465	1 - 1554	15 - 1568	AL529581, BF793008, AW968792, AW958616, AI005133, Z78392, AW665074, AW572797, BE910519, AA311683, AA227581, AI961773, BF311030, AL529580, AA490975, AA580009, BE857081, H15751, W88486, BE011902, BE011961, AI669828, AA378108, AA203400, AA215739, AW297449, BF512524, N34147, and AK000516.
HODAA93	186	982618	1 - 1010	15 - 1024	AU134734, AI921858, BG035733, AW503819, AW502845, AW393515, BE463976, BF085697, AW590049, AW025827, BF927064, M78377, AU135081, AW503556, AW999737, AF002223, U58032, AK001816, AI224979, AF057354, AF073997, AF125314, and AK023451.
HSPSI74	187	982764	1 - 1578	15 - 1592	AU118627, BE614379, BG109394, AI051622, BG035128, BE745111, BE747176, AU133917, AA977180, AI828930, AU133984, BE906377, AI928364, AI189753, BE621857, BE904639, BE907348, BE788794, BE879963, AI819390, AI445461, BG167065, BE790436, BG119322, AI453743, BE619041, BE621186, BE620997, BE439796, AI983655, BE908365, AI685095, BE908977, BE884393, BE613669, BE789335, BE879041, AU135866, AI633575, BF037650, BE910282, BE906666, AI564644, BE547180, BG122252, BE737005, AI925607, BE905184, BE785244, BF036140, BE617891, BE906281, AW071625, AI591358, BE906618, AI720939, AI804422, AW080238, AI250777, AI678712, AW338147, BE392486, BE881236, AI865838, AI963432, BE874626, AW192593, BF126211, BE897209, BE974032, AW383999, BE548372, AW510672, BE546656, BG113740, BF105867, AI262930, AW372926, BF037109, AU137549, BE904461, AI694111, BE548097, BE785027, AI346835, BE877056, AI927769, AA292956, AW629505, AW262737, BE879732, AI161312, BF791201, BE044033, BF790033, BG165112, AI696905, AW513200, AW008570, AW651691, AI871950, BG122807, AI377596, BF674901, AA083510, AI597801, BF691383, BE617437, AW629109, AI093510, BF132064, BF382972, BF222820, BE543834, BF184069, BF573710, AI240988, BE867124, BF690916, BF195127, BF593608, BF182976, BF184281, BE905927, BE501957, BE880450, AI911921, BF106087, AI424384, AI591386, BF215412, AW820297, BF131142, BF247995, AV726627, BF102675, AA479712, BF818868, AA877242, AA706057, AA315188, AW961686, AI148698, AI677934, BE564028, AV732963, BF978564, BG169978, AW583735, AA948565, W52095, BE619741, BE961220, BF031297, AV654555, AA524526, BF687984, BE385852, BF102872, BF246934, AA088439, BF979244, AA843108, AI248307, BE156265, AW015724, AW572531, BF690647,

					<p>BF670998, AA889018, BG118773, BF687915, AA479834, AA626058, BF571504, AI285092, AI591384, W25540, AW205937, BE349186, C17732, AW959385, BE971477, AI027865, AA733014, AI955858, BF572812, AI492554, AA844898, AA452515, BF244568, AA453027, BE219784, BF126097, AI671727, BF184176, BF247378, AW779725, AA129575, AA903050, AI567995, AA404570, AI470033, BF576011, C17963, BE825569, AA088544, BE543766, AA662517, AA699452, AA723200, AA043217, AI075878, BE961124, BF057147, BF676177, AA147228, W52847, AI990245, BF673172, BE963891, AW673152, W38161, AA627686, BF575906, AA113196, BE182595, AI799814, AI333170, T66110, AI972739, AA190873, AI859160, AI446615, W45410, BE182608, BE619182, AI990827, BE327120, AA182640, BF678404, AI298935, AW085158, AW471421, BF243031, BF570900, AA682601, AW103470, AI242230, BE044134, I34297, U34276, AK023364, D16854, X75684, D86467, T55840, T65026, T85378, T97664, R21752, R21800, R38028, R38114, R79190, R79933, H27252, H28594, H38179, H52504, H61762, H64985, H64984, H80983, H64985, W19298, W60075, W73887, AA010631, AA011222, AA035067, AA035576, AA037696, AA037722, AA043216, AA085492, AA129574, AA136658, AA136645, AA148284, AA155661, AA157944, AA190427, AA190472, AA190966, AA191414, AA192519, AA250778, AA502832, AA581093, AA603586, AA837326, AA962397, AA988297, W60032, C05782, C06111, C06123, C06365, C17476, C17504, C16377, C18304, AA649494, AA291465, AA411100, AA421678, D11921, AA478271, AA478328, AA487893, AA486595, AA719173, AA722206, AA724739, AA757735, AA989662, AI032569, AI061065, T10930, Z25898, Z28771, AA953883, F09579, AI244845, AI245632, AI246953, AI249545, AI251817, AI254320, AI261359, AI270788, AI270830, AI275372, AI306933, AI309876, AI334860, AI340796, AI348877, AI363829, AI453453, AI446740, AI432033, AI472527, AI468237, AI500576, AI565439, AI582462, AI224222, AI189366, AI650338, AI349390, AI589264, AI621320, AI686240, AI692846, AI693030, AI738844, AI745717, AI769516, AI798415, AI798502, AI800106, AI823466, AI865912, AI872628, AI918453, AI918523, AI950693, AI927217, AI972899, AI985583, AW016166, AW088968, AW197954, AW242958, AW275048, AW191997, AW194272, and AW300456.</p>
HCEHZ42	188	983008	1 - 3628	15 - 3642	<p>AL537881, AL517309, BE735051, BE901285, BE616892, BE735533, BE793731, BE733509, BE545486, AL517310, AI745249, BE734335, BF526598, BE779600, BE796507, BE798600, BE886723, BE617349, BE734009, BE280110, BE901683, BE276201, BE891303, BF342463, BE729254, BE910567, BE884594, BG255411, BE79129, BE888923, BG031148, BE537150, AA604400, BE734392, AW964738, BE259025, AW327313, BE616860, AW385802, BF108767, BE903733, BE349111, BE257437, BE328784, AW156910, BF060707, AW246117, BE263626, BE392648, AI620896, BE252755, AW732968, AA398262, AW778939, BE349863, BF436950, BF964072, BE799126, BE962236, BE781464, AA602489, AI566556, BF954806, AW249583, AI160402, AI809859, BF766680, H21144, H51462, BE616366, BG257069,</p>

					<p>AI608637, W37225, AW103894, AA984583, AI860074, AI251822, BF964921, H50198, H50199, AI637978, AW236505, AI553932, AA308870, AI341897, W37565, AI571251, F26897, AA922512, H38486, F34532, BG152624, H09117, R24306, F02992, R44903, AI624869, H29803, H46459, H47000, BE277457, AI932959, AW244024, T23597, AI814804, AA707234, AW385702, F13335, AI702387, BE834031, H44917, R40088, AI003681, AA548650, I78815, AA523188, F04394, T40327, AI332972, AI363841, Z43697, BE559682, H42170, AI678524, AW105674, BE747069, T41190, H51420, AI283350, BG014941, AA729769, H38475, AA889494, R12936, H09467, AI277180, C02213, H38470, AW844667, F13332, AA779046, AL537882, BE302833, BF764692, BG112124, H21101, BF333843, AI653323, BF949218, AA399433, H42992, BE172552, BF766013, BF948977, BE939200, AI955921, AF062360, BF514170, BE771818, I76198, AJ238509, AK026112, AI671155, and AW003308.</p>
HDPVU15	189	983592	1 - 1393	15 - 1407	<p>AL526272, AL525155, AL522999, BF966555, AL526230, AL523065, AI608975, AL525156, AI356555, BE738267, AL522957, BF940042, AU132734, BG036876, BF207755, BE866533, BE999964, BF216980, BE567528, BF210168, AW006213, AA506981, BE748710, BF238741, BE565646, BE567849, BF028372, AI097642, BE671753, BF669347, AA481159, AI365242, BE263776, AW613149, BF207815, BF062845, BF207601, BF184549, BF029492, BE748034, AA600213, AA570018, BF677978, AI380165, AW474849, BF029410, BF212774, AW327326, BF242826, BE782106, AI189808, BF673083, BE958173, BF691558, AW327647, BF242098, W40404, BF183977, BE566862, AA521171, AI824172, BF701792, BE564186, BE737955, AI630337, AI276975, BE762520, BF183896, BE865656, AI078467, AA706141, AL047101, BE502602, BF207203, F08084, BF241687, BF246011, AI638395, AW947427, AW236896, AI076444, BF575292, W92066, AI370021, H54752, AW083735, AA308891, AA971116, AW952287, BF745131, BE563907, BF907533, R93244, BF431085, AA834180, AI220183, BF754428, F04320, BE566548, BF381304, AW750302, AA193557, BE075259, AW378464, AA847005, BF213891, AV688842, H54751, N93924, AV687331, BF745923, BF798270, BF214281, AA290913, BF209678, BF381625, AW606584, AW384533, AV699554, AA301337, AL042687, AA569904, AI189079, R57070, N85824, AA828789, AW979044, W92049, and M87339.</p>
HT5GC28	190	984008	1 - 409	15 - 423	<p>AW629796, BE907694, AI879258, BF125522, BG165445, AI991040, BE265179, AA306760, BE386666, BG033049, BF569429, BE616679, BE961094, AV752683, AA554831, AI904451, BF345953, AI563938, AA421977, AI908006, AA310481, C04874, AA325475, AA641261, C04859, BE298529, AI627256, BE876461, BE907784, C03419, AW085607, AI879639, AI907999, AI828997, AW800145, AA702425, AW834911, AW996129, AI348015, AA331368, AV726768, AA633265, AI078778, BE965867, AA477052, BF128018, BE698358, AI246215, AV704488, BE905105, AI356116, BF981367, AC009470, AX011754, X96506, and U41843.</p>
HDABW50	191	984168	1 - 510	15 - 524	<p>AW160956, BG112870, AA181146, AL533095, BE299316, BF206076, AL518638, BG025731,</p>

HAQBH11	192	985043	1 - 1283	15 - 1297	<p> BG027680, BE019254, BF797145, AW160779, AV701299, AL533158, BE254796, BF128863, BE267759, BE618134, BE397759, BF183232, BG034440, BF982019, BG251910, BF797411, AA306380, BE898025, BE897092, BE304609, BE280212, AL533932, BE256616, BE888620, BE257413, BF972257, BF305365, BF303592, AV701256, BF778334, BE785075, AA361278, BE259295, BF033090, BE872617, AL536483, AA147916, BG032975, BG109112, BE616894, Z21306, BF062245, BG170907, BE466819, AU077114, BE542087, BF204786, AA295792, Z20331, AA311755, AA370388, AA381537, BF568489, BE799154, AC027269, X52882, D90344, M12899, A45915, D10606, S46763, M34665, D90345, AF143497, and AF143496. </p> <p> BG033206, BF342428, BE512834, AL048282, A1879320, BE856361, BF795509, AU151801, BG261226, BG034970, AA744603, A W665535, BE251894, BF109751, AI554548, AA582428, BG031393, AI741757, BE676082, AI879319, AA488479, AW248852, AW406490, BE256937, AL047958, AI004611, AA037421, AA774634, N93305, AA430402, AW249274, AI400297, AI811153, AV722095, AI741768, BF125670, AL047959, AI097609, AI348358, AI221281, AI929211, AI928959, BG059980, AA430649, AI189422, AA429252, N24950, AV763462, BF821350, W84606, W79170, AI807903, BE675976, AA156930, AA156806, A W957268, AL520686, AA918136, BE350569, AI436788, BE465495, AI914409, AA731701, A W007162, AI572971, AI127872, AI086033, AI304732, AI304534, AI304332, AI436606, AI148551, AI273244, W25157, A W732151, AI016547, AI334031, A W245121, AA195312, AA680089, AA706611, AA905742, AA857129, AI935026, W74366, AI475996, AI077774, AI858890, BE618488, AA613374, AI424179, AI572567, BE302299, N37064, AI469806, AA648333, AI310080, AA854601, AA922513, A W469487, AI276775, A W978876, AA904130, BE677872, AA703663, AI832558, AA195123, A W401707, AL520541, F20916, AI434634, AI167203, AA554680, AI015217, AA716603, AI919489, AI400655, AI369295, BF204499, AI096816, A W291743, AI708380, A W510583, AI073623, AI864517, BG235989, A W957984, BF432700, BG027523, AL048281, AI473968, AI142442, H21173, AA010920, AA628365, AA181912, AA680368, W68434, AA535548, A W193651, AA666297, A W970399, AI567256, N33827, AA723469, W88714, AI129518, W02166, AA927718, BF436216, A W129400, BE903621, BE894137, AI937756, BE255000, AI439069, A W085013, AL528761, AA291158, BE618888, AL520685, H21172, AA701980, W88713, AA745783, R60749, BF438994, BE379605, AI266717, AA021053, BF220074, AA352112, A W151019, BE618705, H62602, BG122824, AI985732, BE619838, AA576306, N41653, AA777363, AI329553, AI536627, BE619636, AA364327, BE619554, AA523080, AI968125, AI362972, R16958, W68552, A W082162, H77490, W60381, A W888780, AI239605, H00750, BE778855, BF002315, AI419366, F37003, AA281392, BE252322, R55029, BE539494, AI264447, F33844, BE622622, A V758923, AA927434, AI300497, H95107, H19581, AA995088, A V739146, AL522112, AI254228, AA909383, BE783148, BF964544, AI933194, BE619936, A W206638, BE386528, N67439, AA032085, A V738905, AA906240, W32502, BF664072, N80233, BG026963, BF943594, </p>
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					N88679, W38324, AV739446, BF943595, H77489, BE19403, BF797152, F13662, AV758240, T85967, AA356672, AA827089, AV738715, AA886406, W60290, BE880331, AI565666, AC004148, AF275902, L04636, M69039, X75913, AR001488, AF238300, AJ001101, AJ001102, T75519, T79324, T97266, R00559, R43811, H19498, W35357, W84587, AA195016, AA256539, AA429036, AA541335, AA886821, N46376, AA090596, AA096370, AA649533, AI350333, AI432739, AI701659, AI866522, AI874327, and AW272778.
HMVAW42	193	985280	1 - 1033	15 - 1047	BE882789, H18418, H18419, BF983783, T98073, BF799367, AK024419, AL049742, D86997, D88269, AC007050, AC002041, and AC007882.
HAGDF03	194	985323	1 - 886	15 - 900	BE743574, BE747360, BF037152, BF037322, BF185217, BF034907, BF035464, BE735974, BE735948, BG177694, AA912117, AI809647, AA904850, BE715907, AW167552, AI146565, BE932773, AA074391, BE932728, AA905581, BF057950, AW197091, BF818794, AW582452, AW362760, AW362834, BE736338, X76029, AF203444, M94555, and AF222762.
HOPKI29	195	985401	1 - 656	15 - 670	AW967189, BF568535, BE876991, BE222939, AA504246, BG249370, BG255913, BF308620, AW328087, BF034851, AW328088, BE793300, BE905639, AI735694, AI095336, BE386578, AA614065, AA569837, AW196810, AA608885, AI653486, AA613913, AI924658, AA613925, AA554728, AI560961, AA719377, AA469078, AA830299, BF038609, AA203548, BG177899, AA614181, AI858312, AA552154, AI200336, AA885917, BE620103, AV754386, AI031613, BE784692, AA081285, AW166322, BE042784, BE791140, BE964673, AA911010, BE048169, BF568842, AA741206, AA081284, AI126452, AA155948, AI138974, AI139507, AA890569, AV751934, BF125381, AI371201, BF125620, AI205847, AA826559, BE714318, AV726932, AI355171, AI191488, AI311103, AA974366, AA632296, AI581287, W19605, BF125603, AI369911, AI052549, AI363011, AW192081, AA724119, AI110319, AA757027, AI492635, AI310711, W80967, AA828873, AA716667, N70808, W35100, AW190632, N93842, N94928, AW206213, AA804201, AW205535, BF222360, AA045330, W40298, AA186411, AA583415, AI299768, N94313, W47097, AI310460, AV739579, BG168459, AI185445, F21331, AA045388, AA602057, N69883, AW263722, AI874123, AA300062, AI133096, AA308875, BE766731, AA188134, W01415, AI192988, AI002735, AI863303, H73006, BE175080, AW603296, AW883548, AV742934, F00800, AI749433, F36662, W80968, F31017, AA303960, AA902606, AA657819, BF214015, AW883024, AA483632, F22498, BE694643, AW800284, BF820314, AA844336, BE702621, AI206672, R48509, AI445725, AI358193, BE646027, AA599755, BF752265, T90159, AV743096, T90057, F26867, AW882945, AW883656, AW375553, T35390, R35896, BF477469, BE085557, F29236, R48510, BF083095, R35895, N44815, N88653, F29357, AA193068, AW883822, N90560, N57064, D25765, AW059723, W20367, C20592, AW883811, AI253621, R29399, AA283439, BF213077, N64284, AW800074, AW882794, AI000414, AW883496, AW883108, AW883699, R57063, AI802283, N98855, AA155903, BE069170, AW385521, AW883325, AW364453, AI332761, AW820144, AW819764, AW819769, AW606771, BE766667, AW883216, AW819735,

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HAJCA11	196	985580	1 - 1282	15 - 1296	AU132390, AU124559, BE900238, BE732404, AU129885, BE080187, BE926773, BG114544, AW500118, BE537542, AU131408, BE789187, BF922033, BE281277, BF089292, BF083954, BE731775, AU128452, AW875091, N87006, N86017, BE295990, AU133348, AW875092, BE207290, BG027252, BE085014, BF242268, AC006509, A58904, U28946, U54777, U73735, D89640, and D89646.
HWAHA11	197	986078	1 - 1131	15 - 1145	AL528672, AL528671, BE740519, BG179875, BE876837, BE409722, BF125146, BE384347, BE905434, AA480075, BE736786, BE386983, BE385086, A1708432, BE909934, AA77273, BF901579, AA45206, AA362335, AA969968, AA427548, BE275509, AW104489, A1799353, AA421632, A1078240, AA427707, AW955562, AA454864, A1310388, BE743523, AW170140, AW089692, A1129255, AA903911, AA362336, BF813903, R72751, R72760, AA554328, AA483784, R48745, A1197789, AA304308, AW591924, AA320293, AA491393, BF541788, AA360465, AW839762, BF818256, BE622335, AA143722, AW591933, BF927574, BE071386, BF754668, BE622797, BE071396, BE967257, BE243667, BE071302, D20583, BE729081, AX041029, and AFI88504.
HSAMI43	198	986158	1 - 1595	15 - 1609	AU149573, BF034032, BE278549, BE731160, BF034631, AW236853, BF084841, AU126259, A1761782, AU151440, AU149075, BF699903, AU150909, BE542926, AL527731, BE539229, A1628901, AU150578, AU152956, A1354451, AW386462, AW386546, AW386459, AW386633, AW386541, AW386540, AW386674, AW172296, AW386290, AA496720, AL527730, AW386399, AW386293, AW386545, AW386675, AA827175, BF109445, AA766675, BF572742, BF700363, AW673859, A1039522, BF904724, A1954042, AW386400, BE538430, BE783497, BF361388, BE535955, AW386676, AA496777, AA332056, AW386463, AW401913, AU125409, BF349062, AW386593, AW386404, AU119856, AW794691, BF361390, A1630067, AW468663, AU126032, AW610565, AW605675, BE816416, AA969139, AA625769, AA948540, BE816439, A1829160, BE833448, AW386548, BE011481, BE011489, BE816391, BF767633, A1798526, BE816420, D59324, AW674070, C21288, A1254727, A1648699, AL040011, A1445620, A1927233, AL040241, A1887163, AW082532, AW051088, A1445256, AL043152, A1677797, A1445812, A1783792, BE393784, AL513729, BE964614, AW076124, AW088560, A1471429, BF921295, AW089275, A1721755, A1590575, A1972170, AL041150, A1368816, A1586931, BE883591, BE084795, A1630877, BG122101, BG251076, A1538885, A1733682, A1628284, BF965877, BE620438, A1758445, AL046944, A1249389, A1242246, AW163834, AL119791, A1357599, AW078767, AW827102, A1860830, A1886055, A1301710, A1963846, AW089405, A1749221, A1570966, A1571699, A1433611, AW025279, A1582240, A1500061, BG032919, A1453248, A1620639, A1434242, A1750565, A1917994, AA464646, F32537, A1886123, BG107844, AA838230, A1689614, A1812015, BF033757, BF793462, A1241741, BG109164, BG110577, A1439452, A1537677, AW172981, A1679550, AW104141, BF814449, A1929108, A1950877, A1682121, A1686589, AW166937, BE047691, A1818358, A1566430, AW079432, BE879108, A1184903, A1756794, A1623682,

				<p> AI537643, AI918408, AW078650, AW022636, BF792047, BF921291, AW168451, AI277008, BG257656, BE875959, AI805688, AI758924, AI432570, AW168875, AI624304, AI270183, AW087842, AW055252, AI799244, AW020425, AA835966, AI656270, AV713427, AI698391, AA768046, AI924713, AI633061, AI816884, AW004886, AI669864, AL120676, AI345688, AW263804, AI669603, AI889189, AA761323, AI799313, AI422855, BF793360, AI633125, AW169132, AI365256, AW006109, AI915291, AW152182, BE965432, AI285439, AI590043, AI491710, BF971203, AI583578, AW118448, AI863455, BF828245, AI473536, AI309306, AI539153, AV734843, AL036705, AI537837, BF751299, AI683475, AW409775, AW088899, AI884459, AI803935, AI345415, AW008434, AK023147, AK022512, AF2335023, AJ237585, AC005768, AL133031, X72889, X63162, Z97214, AL137548, S63521, AL117432, I89947, AF008439, AF126488, AX020124, AL137550, X06146, AF217987, M92439, AF182215, I30339, I30334, AF119358, AF217982, S77771, AR053103, X83544, AF047716, AL117435, AJ250403, AK000652, AF116698, AR012379, A08910, E12747, AK027111, A08909, AK024992, AR029490, AF069506, AL137554, AR034821, AL137476, AK027116, AF113690, AL117626, AF287051, AK027136, AK026556, I48978, A65340, AK027103, AK000418, Z72491, AL389935, AJ012755, AJ299431, AK026571, AR038854, AF126247, AF177336, AF116609, AF218033, AJ238278, AL110221, AL110158, AF119856, AF130077, AL137527, AL133067, AL049452, AB048974, AL080074, AC009484, I00734, AI8777, AF116650, AK025092, A08913, AK025541, AL133062, E00617, E00717, E00778, AR083283, AF130110, AL137479, AL110280, I68732, X86693, AF038847, AK000655, AL117585, AL050116, X59414, AK025484, U49434, AK026647, X63410, Y10655, AK025967, AK000074, AB049880, AF116654, AL359601, AB052191, A27171, AF130104, I33392, X76228, L13297, AL050277, AL050024, AF118090, AK025119, AK024747, AL110222, AL137292, AL035458, AL133640, AK026749, AK024974, AF017790, X92070, A08912, U35846, AF104032, A08911, A08907, I89931, AF116691, X82434, A86558, AB047248, AF130055, AL080159, AL122104, AK000432, AF218014, AK025906, AK027217, AK027114, AF262032, I09499, AF102578, AL133049, AL122121, AX019230, AR087170, AF271350, AF116688, A08908, S36676, AL137478, AL137523, AF118092, Z82022, AB040710, AF185614, U96683, AL137533, AL359620, AF002672, U91329, S76508, X72387, AK026408, AF119883, AF199027, AK026533, E03348, AK025391, AK026528, E03349, AB050410, AB050510, AL359600, AX045627, AK025407, AL137459, AK025431, AK000753, AF026008, AF188698, AB032264, AX019229, AK026927, AB034701, I89934, AF042090, AL163282, AF116631, AK024570, AF026816, S61953, S83456, AK024538, AK027081, AK026374, AL162008, X79812, AB048888, Y11587, AX047644, AF065135, E03671, AL117587, X62580, AL353957, AF110640, AK027164, AF130089, AF116602, AB033881, AL110225, AF208850, AF056191, AL080129, AF230496, AK026600, AF169154, AF100931, AF130066, AF082526, X66862, A07588, AF119899, AF119875, A76337, AF218005, AL137271, AK000247, I46765, </p>
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HNFIJH73	199	986165	1 - 2951	15 - 2965	AB007812, AF026124, AK025113, S69407, AL133565, AL389982, A03736, and AF019298. AL135307, AV705200, BG113555, BE893152, AU140178, BE275933, BE894324, AI934515, AA716409, BF060791, BE299687, AI677871, AW954275, N29134, AI808415, AI621031, AA582436, AI923237, BG179963, AA700347, AA463830, AA825773, BE393064, BE219349, AU158345, AI831482, BE893515, AI829698, AI354807, AI041945, BE208699, AA831207, HI4671, AA906989, AA460265, N29562, AA679105, H07010, N29294, AA664218, BF438401, N26851, N20226, N21171, R66676, AI147747, BE567629, R53048, AI969497, AA953469, AA976405, AW206458, AW373029, AW503770, BE407841, AA224344, BF111112, Z44255, AA878064, H54297, Z44642, BG006488, AA303163, H05459, N42173, AI206338, AA219130, AA503077, T29413, BE551030, AI805791, R53135, H54374, BF110041, AI970159, R67394, AA384950, R37379, H68011, R73097, AI081796, R68165, BE302777, AW411287, BG119446, AA918529, BE314959, BF988929, AA369756, AA295590, AI927476, R14630, Z39579, R73098, AA960999, H60931, BF212051, F01802, F03399, R13469, AI565718, BF976822, H10504, AA137020, AW590683, AI652433, F03681, BF571534, C15517, F05530, AA136924, AA369755, T49871, AA341117, H60845, W93139, AA010506, BF344411, H67688, AI253282, AI825058, T49872, AW798336, AI185461, AA026121, BF701801, AA026205, AA722157, H14581, AA301189, AW411286, BE220882, R52710, BF700338, AW084882, AA219513, AA932778, N39964, X96375, X76184, AY004174, AF075706, AF075708, E06025, E06024, D12765, U35622, U18018, X63190, AF095890, X96377, and X96376.
HNTCH03	200	986328	1 - 738	15 - 752	AI631653, AW514704, AI683239, AI762458, BE544805, AI952420, AI675981, AI926932, BE536677, H48459, AA780363, R99152, AI049877, AA626759, AL031672, D80008, AP001712, AP000466, AL009051, AC005156, AC006006, AC002115, AC008745, AL121825, U91323, AC025030, AL133244, AL161938, AC007883, AP001630, AC016612, AP001748, AC005531, AC004386, AC002418, AL031597, AC005840, AL159970, AC008747, AL080242, AC002978, and AL031651.
HSUAA20	201	986744	1 - 2257	15 - 2271	AU125631, AU122638, AU124434, AU119564, AL521525, BG108961, AL523942, BG035161, BG251944, BG036436, BF796027, AW853573, BE898956, BG256538, BG119012, BF971387, BF038129, BF665538, BE178302, AI389375, BE292972, BE897915, AW853577, BF983057, BE178464, AI720743, BE743787, BF698180, AA576889, BF344035, BE074977, BG120570, BE074978, BE542431, AU125797, BE074983, BE927446, BF028723, AW664254, AI924017, AA622618, BF699259, AW853635, BF664182, BE773949, AV734594, BE674801, AA780625, BE764622, AW602743, BF751549, BE927448, BE773962, AI632995, AW602746, AI831228, AA127994, AA632633, BE675358, BE855875, AA830571, AW517313, AA460805, AW513297, W80991, BG029093, AA741398, BF082772, AI571048, AI141113, AA946941, AI984475, BF432650, AA652978, AI672687, AI190250, AI678469, AI092182, AA845782, BE927450, AI936315, BF334264, AI075287, BE932015, AI523941, AI597847, W81093,

HSPAD08	202	986767	1 - 1213	15 - 1227	<p>AW104773, BG056516, BF740090, BE251299, BF919259, BE773964, AU128580, AI884832, BE932029, BE171973, AI523288, N70538, AW886360, N69034, BF361037, AW071518, AL121348, BF945741, AW801680, BE927444, AA143051, AW801696, W68118, AL120946, BF904452, BF955068, AA807897, BE245676, BE086998, AA763885, AA535606, BE927436, BE778072, BF093541, AA076360, BF373538, W67691, AA663749, AI052509, W27647, AA143250, W00664, BG108992, H83325, A676456, N93793, BF839013, W05851, AW651747, BF349236, AL521526, AW853630, AA177087, F06727, BF093544, BF229679, AI174288, BE773961, Z39753, AW351657, AI907303, W04331, BF760988, N95782, BF088904, AI253764, BE940308, AW801632, AW021876, AW799691, T79592, BE773988, BE773978, W28688, N67074, AA627487, N92965, C00490, BE773999, AI557470, BF740748, BF743310, T79674, T80951, AA629900, AI695168, AW009552, BE773994, W24896, T87240, BE816249, BE259711, AA368874, AA248274, H56269, AA908719, BF088933, AW403744, BE773973, T29748, W21422, BE927447, AW407237, AW075348, T05740, T24051, T87157, AW361232, AA056364, N74166, BE773977, BF356669, BE175576, BE773987, BE773997, BE773995, W68233, BF088932, AW853634, AA991598, H04126, AU127165, BF740840, BF364217, BE773947, BE177132, N84336, AW753242, BF832460, BE773984, BE810833, BF945806, BE841985, BE696002, T25762, BE931899, and M63488.</p> <p>AW193875, AI859472, AW512687, AI298658, AI683140, AW510341, AW189037, AA075515, AI352215, AA293804, AI634702, AI972816, AA451904, AI204509, BF111273, AI680769, AI206090, AW170346, AW102571, AI491895, AI683354, AI683449, AI800229, AW105621, AW517880, AA628896, AA972922, AI131418, BE393771, AI269897, BE898899, AA477548, AA534766, AA496431, AI128837, AA555137, AA477050, AA563656, BF446212, AW054677, BE208245, AI972158, BE394824, AA432228, AA291675, AA719455, BE394667, AA496562, W67669, AA433859, AA936665, AA452084, AW003747, AA704365, F02471, AA688358, AA292518, AW166518, AA828939, H50634, AA603048, AA075256, AA078977, AA025750, AI609687, BF750539, AA010660, BF035171, AI955963, AA287213, BG150710, BF061263, AI087799, AI459028, AA428593, AI932457, H50635, BF223547, AA284324, W67668, AA327201, AA506658, AA476938, AW772554, BE674284, BE694854, AA722190, AA507349, AI540421, AA010659, AW189604, AA290981, AA969241, AI685657, AA025902, AA406009, AW088425, AA477670, AA402537, AA477179, BE001672, BE382381, BE746798, AA394184, AA477553, BE931271, AW749395, AA290980, F02231, AV705972, AA402896, AA401329, T28367, AW207468, AA079060, AI521428, BE515017, AA477665, AA335459, BF883518, AA405299, BE001677, AA385556, AW779288, AA403038, BE001587, AW467094, AA411029, AA411533, AA908550, AA293236, AA385354, AI963250, AA402928, AI130774, AW995301, BE816517, BF877343, BF877245, H53726, AI031663, AX014329, and AI8924.</p>
HPKBA32	203	987018	1 - 1853	15 - 1867	<p>BF310989, AA779683, AA778834, BE671061, AV751426, AI055953, BG257892, AI609802,</p>

HHFLU49	204	987071	1 - 1380	15 - 1394	<p>AI860306, W27660, R52806, AW195940, AI380154, AV752306, AI174219, AI422421, AV753926, R44985, T19342, Z45051, BF313622, N50668, AA699401, AI912462, Z40782, AV754072, T32252, AV754907, AA716140, AI382444, R20199, AW519215, N50758, BF831401, BG153108, AW748527, AL449781, AL449783, AL449725, AL449782, AL449784, AL449726, AI202657, AV702148, AL121740, AL031652, and S68401.</p> <p>BE792620, BE019329, AA485440, BE793998, AI469092, BE205890, AI191926, AW194434, AI184921, AL035775, AA455208, AW079362, BE269697, AA485606, AI089456, AI332821, AA630354, AA490222, AA454866, BE677870, AA744740, AI392667, AA856590, AA401195, BF529066, AW473066, BE798034, AI825496, AA352810, AA282213, D20119, R85135, AI564870, AA282165, AI453191, T28579, AA348281, R85086, C02583, BF813606, AF245447, AC022154, U48213, and D28468.</p>
HOENX16	205	987112	1 - 3893	15 - 3907	<p>BE891680, BE178297, BE178296, BE178286, AI268332, BE670810, AV707583, BF195477, BE177969, AW951402, AW958955, BE551841, BF445193, H97932, AI741806, AA778568, AW157094, AV646610, BF448214, AI268370, BE551065, AI702945, AI424098, AW451803, AI692508, AW167867, AA628493, BE044558, BG116437, BE218339, AI598189, AI654033, AV653817, AI817262, BE220165, BE467572, AA971551, AW043615, BF109315, AI936744, BE219699, BE219449, AI819358, AI057105, BF448042, BE178117, BE168027, BF434998, AI887913, BF514130, AW119000, AI459272, AW025400, BF434156, AI703246, C06099, AI689853, AW149578, BF058188, AI791586, AI417870, AI420664, BE178000, AA283186, AI703125, AA394164, AI366783, AI377829, BE178101, AW149393, BF940116, AA464856, AA483691, AI951466, AI371041, AI422898, AI566539, BE219820, AI371032, AI199202, AA583355, BF058198, AI089906, BF116136, BF115258, AA977253, AI146316, AW197103, AI094921, BE326470, AA971743, AA994584, AA044947, AI075961, AI393161, AA044943, AI202319, BE327284, BE669883, AI589590, AA972772, AI632940, AA628533, AW341013, AA629360, AI215842, AI039295, AA532381, AA931937, AI076496, AI081377, AW003065, BE856431, AI299481, AA932867, BG149327, AW079999, BF436113, AI376081, AI222964, AI362071, BF061630, BF434279, AA427892, BF115881, AA618566, H98616, AI911958, AI080656, AW028722, AA628503, AA884934, AI184689, AA433882, AI357324, AA405766, N33018, AI356893, AW341785, AA934413, AA434383, AA513037, AI673829, AI376275, BE671351, AW771579, AW152313, AW104344, AA453341, AA994794, AA730790, AI139706, AW163063, BE672575, BF514498, AW139974, AW450904, BF732982, AI560166, AA992454, BF437946, AI268743, BF058175, BF732363, D52937, AA759378, BF448255, BE564373, BE766897, AI350218, AA292346, AW969749, AW263630, N99650, BE219748, AV646822, AI094082, BF431731, AI268578, AA452493, AA577028, AA484850, AW051780, BG149815, AA405847, AI279152, AV723873, AW015816, AI279039, AA230021, AA482694, BE504543, AI383225, BE672185, D62553, T75442, AW966446, AA384817, AI143652, BF514961, BE858120, BE972813, AA001089, BE222561, AA228265, AI205651, AA829807,</p>

HTFOW71	206	987165	1 - 3700	15 - 3714	<p>AA332060, BF229130, R80152, Z36959, D44840, A1692586, BE709287, AA668713, AW028893, AA935871, AI311975, AI313288, AW951403, F13013, F10610, AI910420, AI379372, AA516076, R73731, R73650, AI348747, AI610907, BE180375, D62481, BF438546, AI611925, AW297589, AI784325, D45510, BF054671, BE502727, AI671347, AA621928, BE180154, BF886759, BE180152, AI351256, AA745667, D62330, AI371476, AW451761, BF054866, AL022726, U28368, Y07958, U16153, X75018, AJ001972, AF077859, AJ001971, AF030295, AL133390, AF085889, R20393, R43511, R43511, R80886, N71679, AA001053, AA149057, AA464151, AA730651, AA923038, AA934400, D79281, C20741, AA410247, AA410595, AA410596, AA436359, AA454080, AA480072, AA482617, AA709262, Z42701, AI469038, AI188065, and AW297335.</p> <p>AUI18585, BE875298, AV682483, BE708209, AW965424, BF031382, AA908770, AW194236, AA863229, AA292918, AI140754, BF130541, AI921186, AW188519, BG149424, AA878230, AI828605, AW975392, AW875556, AI949757, AI803722, AV749448, AW474515, AW474470, AI014812, AI373797, AI158313, AA526126, AA809213, AW273542, AW191931, AV715119, N62972, AI914731, N50836, AI784523, AA935043, AV681975, W04335, AA741240, N79876, AA814785, AW876605, AI000955, AI096936, AA767593, AA827102, AW876602, AW023275, AI014777, AA480539, BE007133, BF961785, AV659835, BG026599, AI358045, BF367902, AW340779, AW379327, AA280431, AW393163, R88194, AV749193, AW516924, AI095334, F17499, AW972832, AA527642, BE765701, AA334408, AA745802, W03745, AA252969, AI241826, W03727, R33831, AA745278, BE173119, R75838, N73949, AI361182, AV749201, N55158, AA096078, R75839, R33832, BE007129, N74169, AI934211, C02132, AW373395, AA253011, AI571875, AW015268, AB018256, AK026643, AK023740, and AF121862.</p>
HTTAG03	207	987262	1 - 1291	15 - 1305	<p>AUI130318, BG259774, AUI25274, AUI28855, BG256568, BG177060, BE257156, AUI29041, AI700706, BG024376, AW364136, BE548336, AUI28166, AW386043, AW601873, BF525772, BE019700, AUI132416, AUI27646, AA291324, BE905471, AA179587, AW503906, AW996355, BE747534, BF087827, BE709414, AW197058, W26424, BG257764, R81308, BF754332, BE256391, AUI133402, M85963, AW993840, BF754246, AUI25115, AW386030, AL121131, AA207003, BE390411, AA332904, BF736085, AV724551, AW373274, AUI23386, T09019, BF932018, AUI33513, T31784, AUI32106, N77135, AUI42640, AUI28923, AUI130530, R18813, Z43001, AUI29525, BE694459, T34189, AW975891, F12246, T34191, BF085466, BE719825, BF376318, AUI28888, BF968290, BF928373, AW163398, AA985239, T77416, T30644, H14655, BE171681, AA333145, BE887490, BG004439, BG001543, AA972641, BF895334, BG112027, T30285, R34764, R20971, AW503416, T65268, AUI132457, BE719079, AV706679, BF895331, H19179, BE295342, BG252015, BE161948, AA156130, BE007849, BF845158, AA429537, BF514515, AUI26430, BF929781, AV756829, W96495, BF841516, AA218823, H87691, AA082864, AI989432, AW843600, N56845, BF761493,</p>

						BF899121, AI003240, T78660, BE002101, AA525285, AW340165, AF017085, AF043220, AF043219, AF036613, Y14946, AF038968, AF038969, U77948, AF035737, AF038967, AF015553, AC004883, AC005098, AC005080, AF267747, AC004166, AC008267, AC004867, and AC004878.
HNTNN89	208	987577	1 - 1774	15 - 1788		<p> BG031718, AW513358, BF976544, BF438157, BG032811, BF331293, BG024716, W79562, AL53366, BE884963, BG117015, AI015417, AA195361, AI168363, BF888337, BE736684, BF898627, BE252727, BF092574, BF026987, BF092380, AI313235, AI186042, BF869862, AW803215, BF835770, BF689427, BF002648, BF842552, F01241, BG256421, BF805719, AI460203, BG030479, BF309323, BG256560, BE763786, BG031518, BF922507, AW498536, BF882825, BF988866, BF182880, BE733066, AA452576, BE702993, AW601526, BF027104, BF882823, BF083180, AA195362, BF814079, BE314540, AA343903, BE799669, BF229237, BG257848, BF812714, BG007737, BF229214, BF829379, BE771762, BF827229, BE781509, BF346947, BG003854, BE747136, BE933685, AW499012, BF527029, AA248724, BE899626, BG030023, BG164309, AU141520, AI075687, AW498552, BF025833, BF900113, BE173877, BF912681, BF313647, BF954395, BF757992, AA577565, BG256431, AU118535, AI795846, BE140733, AI795807, AI795845, AI834271, BE140756, AI795820, BF766160, BE278426, AI795809, AI816586, AI816599, AI795804, AI795835, BE140737, BE140735, AI795812, AI795806, BE140736, BE839312, AI795802, BE811847, AI795830, BE772922, AI834270, BE140734, BE140738, BE694678, AI795853, BE140757, BF923079, AI795850, AI795844, BG031631, BE273730, BG176632, BF894840, BF981708, T12220, BE560871, BF348639, AA932665, BE140785, BF851195, BE777506, BF357970, AW177740, BG177284, BE889126, BE294313, BF984543, BE140782, BE707376, AA554454, AA706989, AW845338, BF882819, BE769206, AW580354, AW177756, BF966485, BF375580, AW581253, AW732883, BF203759, AW732860, BE616578, BF923384, BF842532, AA452754, AW607309, BE769218, AI834266, BE168455, BE814247, BF089125, BE082661, BE769200, BF510367, AI905996, BF972638, BE275901, X51466, Z11692, AF079098, AF079099, Y07504, U17362, M13708, E01155, U89415, X15337, X15335, X15336, X13988, Z34849, AC002347, and X04267. </p> <p> AI347165, BE674960, AW262846, AL524881, BF590769, AI479150, AL524880, AI765046, AI954702, AI862166, AW341529, BE671360, AI979234, AA425381, BF222205, AW271374, AI498382, AI350299, AW207600, BF445305, BF939315, AA971011, AA045629, AA047515, AI675480, AI952656, AW136682, AW886735, R94308, AA135217, H92097, AI364888, AI566024, AA676245, T67202, AA85307, AA459915, AA460100, AA906376, AA935669, AA399986, BF590005, AW518625, AW769577, AP000503, AL132713, AF134726, AL122094, AA245661, and AA401402. </p>
HRADQ96	209	987636	1 - 799	15 - 813		
HLDCJ16	210	987808	1 - 955	15 - 969		<p> BF110739, AV704400, BG119539, AA905643, AA011185, AW975682, AA730907, AA736634, W70279, BG116516, BF914127, AI751939, AW963708, BE734515, AI242625, AA374275, AI148822, AX046526, AX046525, and AB023209. </p>

HCOPH23	211	987900	1 - 591	15 - 605	AV729764, AA489568, BE938598, BE535256, D63283, AW177206, AA992072, BE843894, BG108043, BE865610, AW592116, AW996479, BF920145, AW996421, BF666980, AW996637, BE568865, BF216333, BE929243, AW950983, AA355341, BF036942, X89478, and A84106.
HEEAQ78	212	988159	1 - 609	15 - 623	AI203969, BE296775, AI694104, AW006595, BG259789, W19306, AI202279, AW117484, AI244102, AA360001, D31227, AW173045, W30958, D31245, W79314, AI968556, N27070, D30986, W87555, AA099257, BE550156, AI588983, AW204247, AI366748, AI805886, AI138445, AI313140, BE468140, AI458728, AI275451, AI279857, AI674281, AI431916, AW664610, AI928380, AI269434, AW303460, BE674620, AI803131, AI867122, BE221203, AI925957, AI435892, AI767332, AI218515, N99243, AW770741, AI279859, BE670348, AI379346, BE465388, AW663406, AI265771, H85592, BF110468, AA464584, AA909667, AI073818, AI243233, AA502751, AI804773, BG009489, AW779926, AI697614, AU145024, AL121250, AA889681, AC005746, U28049, AF244917, U15566, and AK001031.
HOFNY16	213	988363	1 - 1198	15 - 1212	BG164515, BG111223, BF112285, BG026284, BF684158, BG112559, AI741360, AI028092, BG027394, AW054930, AA843208, BF112117, BF106122, AI885734, AI086570, AA779766, AI149382, BE465615, AW131854, AI589032, AI761580, BF970936, AW338608, BG028559, BF594649, AW957967, BE535650, AI221082, AI538973, AI457118, AW305001, AA224194, N32622, BE857341, AI332782, AA574231, AW166459, AA502344, AI446132, AI333381, AA918408, BF700624, AA843391, AI188410, AA911794, AA694111, AI128450, AI017450, AI183618, AI695163, N71175, AI359210, AI362223, AI076169, AI373833, BE645009, AI969702, AI679434, AI679944, AI632818, AI751761, AA464068, AA677764, AA262544, AW611909, H98169, AA316805, AA224296, AI351595, H46974, BF939054, AI094637, N29775, BF000254, AA191432, BE439725, H99191, AW008944, BF317333, AA261907, AI654665, AA766635, AA629945, AA345802, N49576, BF941630, AA513768, N21971, AI469939, AA731203, AA627622, AI222668, AW627836, AI128771, AW206264, AI678337, AA463932, AA526189, AI535798, AA526159, BE615345, BE615934, N24474, AA781062, BF373261, AA766011, AI004436, AI249345, AA027991, AA366773, AA344096, R10708, AW131678, N28580, W19349, AU156209, AA333690, N47841, N57194, AW337311, AA027990, AA618114, AA861099, AA508759, AA780171, AA355540, AA508773, AA528039, AW972443, AW972641, AA535956, T25759, BE770747, AA918251, BE164977, BF997435, AI687527, AI749060, AW197976, H83283, AW104117, AW866581, AW866501, BE841187, BF374341, AW969030, BF001680, BF792390, H61031, AW866266, AW132056, AI590043, BF812960, AI433157, AI702073, BF812961, AI950892, AI635942, BF812938, AW827289, AI114703, AI280637, AI648454, BF970652, AI435253, AI633125, BE047852, AI445611, AL514717, AI569583, AW366372, AI698391, AW129659, AI635461, AI888208, AI862139, AW168650, AW026882, AI491775, BE964614, BF724198, AI431975, BF814453, AW251034, AW051258, AI536685, AI802542, AI818980, AL515191, BF816042, AV729953,

<p> AL670009, BE965621, AW086113, AI670002, BG109131, AL513961, AI254731, AI564719, BF814412, AI815232, AI677796, BE965121, AI619502, AI445432, AL514579, AI687728, AL513597, AW166903, AW235482, AI435641, AI637584, AA292158, AI286256, BF925729, AW081036, AV735235, AI648509, AL514047, AI690426, AL514357, AL045500, AI687362, AI267162, AI926790, AI440239, AI590830, AI890833, AI812107, AI039086, AI148408, AI612913, AL513577, AI620003, AI799183, AI559296, AV703585, AI582391, AI687127, BF921291, AW079075, AL134830, AI580984, BF856017, AL514701, BG180046, BE963244, AI636588, BF868489, AW104724, AL110239, AF151872, AK023498, I89947, AK026506, AL110225, AF113019, AL110280, I48978, AF116631, AL162083, I09499, A08916, A08913, AB047904, AL133557, S78214, AK027096, AL137557, AL110196, X82434, AB049880, AL117463, AL359596, AL137480, AK025092, A08910, AF285167, AF314091, A65341, E05822, AK026480, AL122050, AF177401, AK026504, AF119875, AL117457, AL359941, AK027173, AL050149, AF116682, I89931, A65340, AI049452, AL137550, AL353940, AR087170, AF116688, Z82022, AK026927, AF113694, AK025084, AF130105, AL442082, AL133665, AK024594, AB051158, AK026744, AI389935, AK026532, AF119899, A77033, A77035, AL050208, AL050146, AL133619, AI389982, AL162004, S54890, AF119909, AL117460, AL359601, AL050116, AF125948, I48979, Y11254, AL133080, AK025339, AK026855, AL137459, AK000323, A23630, A08909, AL133640, AF118090, AB048954, AK027160, AF090903, AF130077, AK026542, Y16645, AB048953, AK026045, AF111851, AL133016, AF090901, AJ005690, AL133560, AF116691, AF113677, S36676, I33392, AK026959, Z13966, AL049382, AK024538, AF183393, AL110221, AF090900, AF230496, AJ000937, AB041801, AK026583, AK026784, AF116646, AL122100, AL133075, AF158248, S68736, AL133113, AF106862, AK026534, AB049892, A86558, AF225424, AF130099, X57961, AL050393, AL359618, X72889, AK026592, AL080124, AF078844, AF091084, AB052191, U37359, AF146568, AF090896, AL050138, AL133606, AF090934, AF113699, AL049314, AK000083, X63574, AL080163, AL122121, AR038854, U75932, AF090923, E02349, AL110296, AK026741, AK027204, AF116602, AF130087, AB052200, AF130082, S61953, AF130104, AL050277, AL137283, AF097996, X70685, AK000618, AK000212, AR079032, AL050108, AK026647, AL035458, AL133637, E03348, AF113689, AF130055, AF119878, AL049466, AK026613, AK027164, AF242189, U57352, AL157482, AK000647, AL122093, I68732, AL122110, AF119894, AF017437, AK026894, AK026528, AL050024, I33391, AF218014, AK025407, X84990, AX019230, AL133565, AX026823, A58524, A58523, AK026865, AK027081, AL049938, AF119865, AK000137, AF107847, AL137271, AF130100, AL353957, AK000074, AB050431, E07108, AF039138, AF039137, AK000391, AL353956, AF113013, Y11587, AL080074, AK024747, AL117583, AF176651, AK025414, E01963, AL162006, AK025491, AF119857, AK026452, AK025113, AK025772, AF138861, AX006092, AF111847, AF106657, AF079765, AX019229, AF104032, AL049464, AF100931, AF118094, </p>					
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						AF118070, X80340, U58996, AK024974, AF026124, AL157431, AL117443, AL117435, U35846, and U42766.
HSLCX45	214	988441	1 - 1594	15 - 1608		AU138309, BE378723, AW954529, BG170125, BE407482, BF345314, BG110266, AU126439, BG252087, AI207589, BE538230, AW370396, AW514900, AW614778, BE873057, AW370434, BF968320, BG257066, AA166771, BG112058, AL525443, BF346757, BG118689, BE545196, AI808550, AU128363, AI076009, AW748425, AL135589, AA167097, BG167568, AA430610, AI825617, AW796311, AW182707, AW748427, AI026641, BG163741, H51991, AA975592, AW995303, AI264089, AA430525, AI372496, AA297731, AW573289, AI219300, AA322231, Z45337, AI080168, AI766072, BF727366, AV696797, R76072, AA384673, W24461, BF445015, AI806968, R54168, AA296920, BE171602, BF894766, BE171603, R82603, AA294943, AV692839, AA310705, AA632404, N42674, R14396, BF726113, BE892010, AI865128, AA824553, N32458, AA356894, AA166959, AI609522, AA166910, AI253143, BE162789, BF351162, AI924986, AA444136, AI075198, W05098, AA385099, AW374839, BF516243, AI248101, AI805883, AA582768, AA809507, AA731343, W44721, AA862207, R56252, AA826145, AA573521, AW407346, BG028788, N92283, BF445409, W38624, AI373279, AI150941, AI655627, AA889359, BF439835, AW613357, AI304379, AL133843, AI143202, AI767348, BE671632, AA055559, AA400410, AI826612, AI655656, AI433399, AI361012, AI214658, T32981, AW513581, AW513568, AW772436, AW130640, BE670317, T19107, AU150661, BE220152, Z41049, AL524537, AA700295, AA001677, AW768493, BF726112, AA730248, BF196078, AW511016, AI693099, AI693113, AW150675, AA948601, AA450020, AW081598, AA947191, BF515680, AI826592, AA031305, AI693090, AW748435, T93242, AA436536, AA526868, BF034090, R82604, AA826163, AA669789, BF591968, N48257, BE550159, BF589688, T93135, AW051111, BF754254, D79627, BF184824, AI887184, BF448111, BF893582, H30152, AW844424, BE972243, BG178888, BF934121, AA180040, N35415, AA555145, AK001437, AX010197, AB006572, AF091095, AX010199, AP000693, Z82196, and AI916220.
HLMJB09	215	988499	1 - 577	15 - 591		BE791453, BE266718, AI831454, AI478449, BF204533, BE728534, AW872373, AI366669, AI280407, AA306735, BG149615, N93873, AI268479, BE669813, AA465678, BE550202, AA912151, AA394238, AA972278, AW138759, AA310901, AW004693, AW008896, H96033, AA576640, AA292385, BF307199, BF511769, and AI074225.
HOVEF60	216	988526	1 - 1429	15 - 1443		AA863120, BF732255, BE326946, AW298244, AA017053, AA435512, AW295622, AW295626, AI951643, T53592, BE939132, AW294754, AA393547, T53591, AV699140, AA969193, R05527, AI085442, AA372985, R22075, AI160237, AC022137, AC011452, AC010636, AC002097, AF072711, AC006452, AL022326, AC008469, AC005520, U82670, AF176315, AL136969, AL365217, AC008770, AC005057, AC073316, AL133258, Z97054, Z69387, and AP000344.
HOGDR72	217	988536	1 - 530	15 - 544		BF967495, BF211711, AW327285, BF526862, BG025286, BF979085, BG027660, BE251902,

					<p>AV762304, BE260454, BF129885, AV741191, BF681456, BE907272, AI884918, AI095756, F30101, BE254907, AU126691, AV714954, AI827092, AV743251, AV710585, AW732886, AI344424, AA584218, AA744890, AI300848, W16526, AI748804, AI857538, AI264687, W47377, BF792830, AA040213, AA609680, AA937134, AV745024, BF681171, AA557625, BG231394, BF239199, AI188746, AV721211, AA855009, AV715743, BF686712, AI033767, AA420847, BF965251, AV724057, AI312889, AI342092, AI392941, AA707599, AI573264, AI298244, D61196, AA707532, AI338594, D20757, F24231, BF447322, AA650234, AA758576, N29939, AA468938, W05637, AV751983, AA313977, AA683534, AA469013, BE868256, F19198, AV737070, D51524, AA420429, AA657493, AI749529, AA335917, AW008966, H10544, AI131360, AI037998, BF240779, AI751883, AA313970, AI051789, AI159957, W47378, AA523187, AW026532, BE887794, AI857469, AA657513, F24557, AA146866, AI720892, F36863, F28793, W32886, AA146867, AW007089, BE672619, D81191, AA968838, BF337165, D51520, AA889941, BF954574, BF209878, AA632059, AA576811, AI300706, T79725, AV739817, T68141, BE812441, R73094, AA339720, F19462, BE073352, AA724959, AA961393, AI336135, AI138721, F27913, T30336, AI204128, F31843, T32200, AA568145, T36073, N74191, BF210913, T67995, T92099, T71446, BG254284, F34123, AI749424, D56154, BF954482, AW884243, AW939886, AA083105, D81173, AA313992, W35155, BF239376, AA471133, AW631265, BF572665, T31892, BF131513, D81247, W04355, BF572508, AW327625, D81378, D52437, AA082542, D52443, D59501, AW793583, AA083106, T24841, C03173, BE972561, W05779, R29137, H89590, D53867, BF799254, T35945, D52190, AV737705, AI936104, N92532, AA630017, AA040193, AA922437, AA382273, AI161393, F22684, AV741683, AA996319, T36223, F29277, AV719994, AA721470, AA622177, AA040194, BE073240, W38814, AA382638, BF840821, T77354, H24146, BE907742, BE073229, BF588473, AI191983, BE905959, BF431001, AA633270, BF572727, AA860915, AL046356, AL041862, AL079977, AX017269, AR022287, AL138958, L42855, AR022284, AC004493, and AC005570.</p>
HOCME20	218	988556	1 - 1296	15 - 1310	<p>BE514634, BG256857, BE870314, BE537227, BG107758, AU157540, BE379227, BG180584, AA039903, AW957081, BF666246, AA041527, BF223913, AI088688, AI452952, BE463637, AI768938, AI354883, AI569996, AI168582, BE746240, AI189869, BF930629, AU138248, BG167829, AA214649, BF897138, AW613854, AI086670, R70656, AW262560, AA906264, BG176733, AA862839, BF992831, BE613477, BE614226, BF772857, BE741553, AA369318, AA398795, AA334622, AW749053, BF979310, BE541549, AI990089, R01145, AA367593, AI990659, AA379173, AL449915, AI886597, AI024032, AA435840, AA670197, AA847919, BF195634, AA248230, BE707671, N81095, BF196800, AI476295, AW818630, BE677063, AW630122, AW582595, BE072906, BF899151, AW818433, BF928637, AA211075, AW582587, BF877092, R05760, AW858854, BE964371, BF773525, BE937222, AA079305, BF799977, BF982105, BF988362, BE927423, Y10043, AF003626, AX012194, AX011713,</p>

HAMTH26	219	988737	1 - 915	15 - 929	AF022465, AL357512, Z83826, Z93931, AC016617, AC002526, Y10044, AL353728, AL137124, AC005519, AC005479, AL136094, AL034450, AC002375, AL049709, AL035420, AF047701, L05085, AC004493, AK025903, AK025579, AB016091, AB002322, AF201422, AB016092, Y17793, AX030435, and W07456.
					AU128934, AW295223, BE464400, AA991499, BE896488, AA350115, AA862497, AW803075, BF307480, BE771630, AI565361, BF305159, BG035692, AU143667, BE888160, BF308892, BG167064, BF316003, BG105910, AL533676, AA689522, AL527443, BF310865, BE561846, BE902727, BE250595, BE562560, AI970905, AB014077, AC004209, AP000513, U63336, and Z63167.
HHFOX44	220	988904	1 - 951	15 - 965	AL526701, AL522456, AL532453, AL527039, AL523903, AL526253, AL528026, AL527184, BE313151, BF981949, BE382548, AL528052, BE382760, AL530393, BE563051, BF316765, AL525360, BE295221, BE395130, BF343372, AL522455, AW161570, AI752220, AL528025, AL523902, AI752281, AL532452, BF316189, AA780343, BE314081, AI751714, BE710678, BE312148, AL525320, AA838048, BF526000, BE262585, AA308676, BE735562, BE295717, BF340685, BE714898, BF206587, BF207314, BF875508, AL527163, BE383255, AA532924, BF312104, AW160787, BF342085, BF206655, BF338128, AL524678, AA443563, T61701, AI750244, AW605824, BE792522, BG026032, AA327814, AI815410, AA042827, AI460348, AI365667, R19505, A09809, X16302, M35410, S37712, M69237, AF074854, S44612, AF120326, U21117, AC007563, M69239, S37722, and U21118.
HPWDE54	221	989029	1 - 4052	15 - 4066	AW857689, AW276231, BE551292, BF308481, BE299013, AA490201, BE670363, BF669630, AW005386, AV716271, W58532, N34876, H49263, AI989984, BF380965, BF351245, AW604667, T65325, AA316606, AI632927, AA284855, AW175932, AA456691, AA479509, AA284772, BF882124, BF754718, AI332652, AA479512, AI344533, H20606, BE502863, BF527371, AI025009, AI914188, F11769, AA449658, BF093603, AA992445, H14740, H69342, BF329858, H78105, AA065099, BE220691, AW003734, R91727, BG015459, AW468776, AI239843, BF333777, AA411443, AL135088, AA235153, AI651557, BE048365, F35147, BE311701, BF803133, AA479511, AW080475, AA689564, AI093007, BF329815, AI367837, Z41915, AW051387, W24995, AI613126, AW975318, AW383213, H82282, H24463, BF761251, BF834044, N55797, BF761000, N39880, AA284683, AI582820, AW444888, BE326218, AW002105, BE768127, AI350138, AI681729, H60265, BE940320, BE326820, AA284567, AA815230, AA476964, BF911584, BF909991, AW183890, AI241032, W46875, AA084319, AI633647, H94957, AI262918, AI022584, AW005596, N43950, H82389, AI683444, AJ252060, and M85156.
HNOAX46	222	989183	1 - 2741	15 - 2755	AU119537, AU134978, AI064858, AI064875, AW007726, AV703643, AU127757, AI694749, AI819136, AI887756, AI869305, BE885171, AA600798, AI887625, AI628095, BF061377, BE348369, AA723035, BF525409, AU148211, AI203615, AU145850, BE178344, AW169246, AI523583, AI922660, AI589554, BE720104, AV722120, AI805580, AU148112, BG250310,

	AI377058, AI810912, AA398656, BF996331, AU148093, C05969, AW874271, N66451, AI073379, AI469977, BF571021, BE674095, BE297119, AI990024, AI371810, AA075584, AI623425, AI279574, AW971637, BE620518, AI499097, AI493871, AI291024, AI492893, AW960228, AA115284, AI720722, AI129299, AV697501, AA634410, AA706055, AA916688, AI222756, AI741475, AA136985, AU155745, AW190821, AW169279, AI628193, AA908259, AA845441, AI954086, AI680250, AA398754, AI093023, AA159897, BF244333, BF111354, AV701004, AL120202, AI298221, AA894561, AA210731, AI094211, BF476045, BE047218, AI363414, BF940251, AA664129, BE543935, AI805397, BF340684, BE790182, BF806198, AA436470, BE620915, AA713506, AA507594, AA625928, AI275221, AV660625, AA436520, BF809549, BF594770, AA292853, AW513038, W17099, AI281346, AI246750, BF822594, AW337467, AI457557, AI273621, AI358407, AV660420, AI089874, AI985765, AA565456, AA137111, AI051001, AA160265, AI301506, AI077775, AW271244, BE311714, AW044421, AV691111, AA508866, AI190740, AI672582, AA171627, AA907462, AW439122, BF382756, AW276059, BF376236, W33010, AA918085, AV659734, AI073377, BG015156, AA653335, BG113981, AI126887, AI079660, AU148196, BE146057, BF979837, AI475605, BE767928, AI751734, D57160, BF277149, BF448001, AW015164, AI922611, AI683103, BF525402, BE181216, AW511814, AW073312, BE940492, AW243771, AA977865, AI564424, AV699550, W35397, AI751906, BE971256, AA844327, AW630218, AA877447, AV650593, AV709628, BG012725, BE875929, AA171771, C00682, BF837333, AA730730, AW057767, AV659922, AI940054, HI9824, AI630539, AI041582, BE328606, H87492, AW239505, AW021613, BE042700, AI935833, AI272094, AA621794, AW517994, BE767925, AI628171, AI572928, AI224383, AI269397, AI700135, AA029668, AI690407, AW768363, AA418591, BE965181, AW020196, BF804869, AA165005, H45176, AA327980, AI368771, AI422039, AI811735, AI11196, AA502116, AA631471, AA171737, W45662, N90940, BE843804, AI950655, BF475871, HI1102, AI383266, AA693578, AA853548, AI672986, AI581920, AI052283, AI805968, BF806807, AA639457, AI096876, BF125741, BG012720, H40424, AI168134, T48727, AI630920, AA614282, AW088935, BE768420, AA771963, AV684034, AW264774, BF337920, D82636, X79067, X52590, AK024202, M58566, X99404, AF061981, AC020910, AF123320, A75260, AF061982, M58564, I48979, I89947, AB048953, S78214, AF116644, AF116639, AF116691, A08916, AL049938, AF113013, AL049452, AL133640, AF113691, AF130082, AF113689, AF116631, AF271981, AF116688, AF116602, AF130104, I48978, AF130105, AF090934, AF130059, AF090903, Y11587, AF078844, AL050116, AF118064, AL157431, AK026865, AL110221, AL080060, AF090900, AL110196, AB041801, AF090943, AF119875, AX046603, AL1389978, AL133016, AF104032, AF113690, AL050149, AL117460, AL162083, AF118070, AL050393, AX019230, AF1122050, AF119878, AF116646, AK025339, AF090901, AL390167, AL359596, L31396, AL117457, AF113694, AF130092, AK024538, AL050146, AL137527, AF125949, AF138861, AR059958, AL442082, AB048964,
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AK026608, S68736, AF218014, AF130075, A08913, AR079032, AL359601, L31397, AB050510, AJ242859, AL442072, AB049758, AF106862, AF111847, AL162006, AL133606, AK000212, AK026741, AL121656, A93016, I89931, AX019229, AL137550, AR087170, AL049382, AB047615, AL133075, AL050108, U91329, AL133093, X63574, U80742, X84990, U42766, AK025958, AL122049, I33392, AR011880, AF090896, AK000618, AL050138, AX040958, AL133080, AB047904, AL049314, AK000432, AL050277, AL049430, AK000614, A65341, AL137557, AK025084, AK026462, AF113699, AK027164, AK025414, AF130099, AL117435, AF130066, AK027204, AK026583, U72620, AF113019, AF119871, AL157482, AB019565, U35846, AL110280, AF119899, AL080159, AF119909, AK027113, AK026480, AF219137, AF113676, AF177401, AL080137, AX026824, AX026823, A03736, AL137283, X82434, AK026542, AK026353, A58524, AL133113, AK000083, AK026528, U00763, AL122110, A58523, AB048974, AB051158, AL122093, AL096744, AK026534, AL353956, AF230496, AL389982, AL133104, AJ299431, AK026744, AL162062, AL137459, AK026408, A08910, AK026629, A77033, A77035, A08909, AF158248, AX042059, AK025491, I09360, Y14314, AK026452, AK026642, AF177336, AX040974, AF183393, AX006092, X98834, AL049464, AL050024, Y16645, AF225424, AK025484, X93495, AF242189, AF017437, AK026504, AF061943, AF119865, AL117585, AF146568, AL049466, I03321, AF087943, AL353625, AF271350, E03348, AF097996, I26207, AJ238278, AK025632, AF067728, AL133077, AK026855, AK026784, AF119894, AK024588, AL359622, T49704, T49705, R22942, R23048, R24000, R24169, R36645, R39724, R53095, R72816, H00564, H00565, H18796, H19855, H43611, H44654, H45175, R82949, R83142, H89284, N42350, AA160264, AA171703, AA210861, AA232978, AA262591, AA463654, AA418653, AA424743, AA283920, AA283919, AA492125, AA551494, AA639050, AA662041, AA765871, AA768524, AA857989, AA953584, AI005538, N84392, W44442, C02453, N86404, AA642653, AA648371, AA441954, Z19687, AA708484, AA725245, AA853547, AA905854, AA962353, T10948, T17190, AA953836, AI254359, AI273937, AI306707, AI378429, AI432005, AI400922, AI473488, AI470607, AI568121, AI569533, AI581017, AI623668, AI628554, AI208299, AI537099, AI342593, AI613277, AI683073, AI696356, AI784432, AI862374, AI866360, AI949530, AW024495, AW090146, AW117844, AW073483, AW148468, AW166720, AW166985, AW169053, AW169190, AW196010, AW265452, AW265453, AW189688, and AW194540.					
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BE138594, AW500684, AA704393, AI251034, BE139139, AW805539, AV762633, AI250552, T74524, AV760391, AI135377, AI755214, AI114657, AL079734, AA809546, AW505253, AI251284, AI251203, AI119691, AI754567, AI223626, AA410788, AI754105, AW502975, AW303098, AI357823, AV764259, AV760389, AI792575, BF216280, AW021583, AI284543, AI634187, AW576251, AA533025, AI565084, AU117926, AI590458, AI537800, AI491765, BE138387, AW975049, AI829480, AW157005, AI801649, AI267356, AA535216, AI620992, BF868994, AI792521, AA587604, AI457313, BG236628, AA579427, AI254770, AV763540, AA126475, AW957372, AW021917, AA904211, AV710482, AW474168, AW083934, AV760466, AI028510, AI523205, AW023111, AF001548, AP001717, AL078461, AP000356, AL035455, Z83844, AF207550, Z82190, AC005531, AC005156, AC004638, AP001068, AC005480, AP001671, AC020916, AC004826, Z95116, AC011742, AC006057, AP001753, AP001725, AL352984, AC002115, AL158830, AC005237, AL049779, AP000030, AJ011930, AL163300, AL034374, AL157818, AC009600, AC004990, AB003151, AC019171, AC020898, AC000052, AP001710, AP001711, AL139396, AC027319, AC006983, AC020908, AC006581, AC003104, AC005666, Z98742, Z84487, AL022323, AC009244, AC024067, AC009516, AC008567, AC002365, AP000553, AC010252, AL049631, AC005701, AP001469, AL021878, AL138787, AC003101, AC008626, AL161936, AL031848, AF227510, AC008812, AL499628, AC010748, AP001709, AL133260, AC005914, AL136526, AL034372, AC004594, AC011490, AC006064, AP002085, AL159997, AC009477, AL158040, AL137061, AB001523, AF165926, AC004659, AC007216, AC018694, AC004099, AP000692, AC002316, AP000555, AL133387, AP001054, AC025593, AC036103, AC012309, AC004477, AF111169, U62317, AL031602, AC006211, AL121753, AC008249, AL136981, AC011510, AL359457, AJ295844, AC000117, AC005015, AC010605, AL162615, AC000378, AL163248, AC005295, AL031587, AL049569, AL109984, AC002425, AL009179, AL035659, AC018751, Z98200, AC005829, AC004965, AC006449, AL353802, AC005488, AC009079, AP002898, AC005746, AP001727, AC005786, AF168787, AC005846, AL136444, Z93015, AC007383, AL023375, AC004848, AC0069539, AC009032, AC007384, AL021368, Z82244, AC003690, AC005903, AC004491, AP000131, AP000209, AC023490, AC011527, AC007247, AP001759, AC005080, AC005391, AL049795, AC034246, AL391833, AL109865, AC005500, AL136980, AC009501, AC004752, AL163249, AC005377, AL117354, AC007376, AP001675, AC008687, AC005071, AC011455, AL022326, AC002544, AL135839, AL096701, AP001748, AC005529, AC007564, AC006329, AC009154, AP001630, AC006312, AC011470, AC007066, AC073175, AC007541, AC004234, AC008727, AP001039, AC007686, AL033529, AC010553, AF317635, AC008267, AC007981, AC011475, AC003962, AL136418, AC007263, AC022515, AC005799, AL009183, AC020904, AC006285, AL133448, AL035089, AL022163, AC004674, AC004522, AC010627, AC011462, AC010491, AL132825, AC004906, AL022336, AL008582, AF240628, AC003954, AC008379, AL034423, AL049709, AC008753, AC008115, AP001468, AL135905, AP000065, AC008745, AC006468,

HO0JB32	224	989321	1 - 2335	15 - 2349	AC005072, AC009086, AC022596, AL021707, AC005736, AC008055, AL035071, AC006960, AL133454, AC006515, AC010789, AC021016, AL022147, AC006480, AL117339, AC005236, AC018712, AL033520, AL022165, AC003663, and AL021395. AL515532, AA829751, BE748918, AW007550, AL515533, AU119923, AL518484, BF697251, AW978734, AA812215, AI333647, AA776760, AA479310, AA976233, AA765519, AA602624, AW978969, BF214666, AW893942, AW993668, BF726646, BF036225, AI619447, AW272900, AA143053, BF589461, AI832440, AA825905, AW271599, AW439208, BF981088, AA868695, AA632054, BE895236, AW607674, AA143252, W60553, N27545, AA255434, AW272364, AI886366, AA027768, AA766708, AI079161, AI963170, AI079664, BF132493, AI274767, AA938443, Z25256, AI803757, AA757112, N40361, AV699373, AW607572, T50699, AW607642, F00462, BE165952, BF130297, AA876224, BE560621, BE748396, AA294831, BF900791, AI698984, AA255596, AW572264, AA805436, AA357727, T77071, BE896446, BF921133, AW964250, AA479413, BE542265, BF241063, BF576917, R80504, AI886367, AB007619, AF006265, AF076524, AL133353, L29555, AF059321, and AI168650.
HMWJJ35	225	989323	1 - 595	15 - 609	BF130431, AU148003, BF541521, BF668426, BE960616, AW955644, BF242464, BF242953, BF700182, AW592565, AL536954, BE737954, N39380, BF698754, BF214449, BF667459, BE565781, BF028162, AA640397, BE748478, BF238497, BF664849, W00920, BF665032, BF570721, AW976277, BF027869, BF664855, AA379071, AA329515, D80838, AL536953, BF695984, AA936496, AL109925, AK022419, AF254117, AF264787, AL137060, Y15228, Y15381, and Z57881.
HHFIA95	226	989396	1 - 3136	15 - 3150	AU118053, AI761722, AU133368, BE220681, BE904300, AA903124, BE218571, BE875326, BF110216, BG254952, BE393532, AL134516, BG105299, BG177247, BE885702, BE154897, BF037984, AI831473, BF574765, BF576023, BG260292, BE439745, AA604081, AA603455, AW629057, AI817117, AI694366, W80392, AI935246, AU144710, AA887227, BE154865, BG104770, AI076013, AA211611, AW168295, BF672060, BE154866, BF036585, BE154898, BF355599, BF671956, BF031143, AW769409, AW263745, AW977292, AA211683, BE075303, AU154716, BF215526, BF800037, AW086067, BE871344, AI281897, AI827407, AI244255, AI660036, BE789605, AI559254, AA044091, BF983298, AI122753, AA917034, AI637588, AI808102, R60765, W78970, N22921, AA393852, AI040177, BF229422, W56449, Z33451, AW771892, AI190898, AA547998, AW242400, AI188686, AI242430, AA604102, AA044281, AA765282, AV722457, AI338330, AA159042, BE880891, BF574179, AI338329, BF103937, BF219369, H18545, AI973242, BF105139, AA393851, BE891180, AA995784, R60253, AA569460, AA936280, F06764, AA993733, AA031985, AA541308, R67234, BF229418, BF802756, Z39821, AA173320, AW136432, N63356, AW316605, H51502, AA173319, AU124276, H02648, BF672600, Z26973, R81685, AI244925, AI016876, H18437, BF686307, AW265135, T54070, AI541355, AA565781, AW023057, R74303, AA856745,

					<p>T34301, R28236, H74149, R38158, AI332886, Z42782, A W242417, R34113, AA731347, BF734577, BE708141, H51503, R38121, F05473, D57866, A W804895, BF577280, AA031984, R27980, R81686, R38063, R38035, AA300862, AI804174, AW050651, Z38926, AA894455, AI499327, BF355594, AW151345, BF088241, BE932744, BE932715, BE932737, BE719774, BF835036, F01732, BE167500, BF088221, BE933511, BF790450, BE719784, AA248693, BE719818, BE719777, AI364416, BE719788, BE932729, BE932756, BE932760, BF835030, BE932736, BF835028, BE064173, BF088220, AK021602, AB002533, U93240, Y12393, AF020771, AK001237, D17139, AL022152, AC000100, AC004945, AL109623, AC005392, AL034551, AC020599, AC005783, AL162811, AC009314, AC003001, AL031054, AL139396, AC017047, and AC084429.</p>
HSPSH36	227	989607	1 - 3341	15 - 3355	<p>AI084794, AI079577, BE881652, BF339888, AU129623, AI860227, BF527871, BE902813, A W247256, A W149506, AI340349, A W165995, BE258548, BG120667, BE562875, BE671167, N49941, BG122408, AI937382, BE220476, AA114972, BE467738, BE872452, AI798846, A W043850, BG104282, AI660526, A W504750, AA053861, AA432275, AA034091, BF798185, AI310064, AI677900, AI587077, AA543064, BE045523, A W898148, AI693972, AI356444, AA845685, AI084913, AI140117, A W593208, BF111021, AI273445, AA431268, AA934875, A W248351, BF432911, BE670425, BE828110, AI221382, AI356446, AI160550, BE217783, BG112435, AI689824, BF110424, AI914318, AA953658, W73665, BE673799, AI359956, AI360429, AI804623, A W965712, A W205262, AI342370, AA620610, AA918736, AI279173, BG149447, AA041542, AI304417, AA515511, BF061408, AI565733, AI859179, BE674577, A W071018, BF061911, AI351605, AA001196, AA923717, AA706669, AI950177, AI566935, AI311478, W73617, AA007600, BF840585, BF061852, AA503205, A W014660, BF112260, N52723, A W303274, AA352018, AA961114, BF195300, AI480209, AI278673, AI916311, H38785, AA047595, AI136472, AI052140, AI298446, AA057216, A W043575, AI128768, BF446866, W68642, AI033091, A W665976, AA889932, H95052, AA747719, T66290, AI298975, BF773249, AI375774, AI703297, AI500368, H20393, BE327032, N99560, AI090578, AI023749, AA086083, AI275622, AA757794, AI452648, AI583232, AI568624, A W470278, W68641, BF978456, AI364086, H16275, H38686, BE831779, AI459176, H83993, A W149552, A W949838, AI422271, R05556, H12369, BE676655, BF197252, AI609045, BF055295, R19188, R87458, R05663, AI268656, T66343, H21010, N50155, R71281, H43161, R61162, R85142, AI918177, R73430, R71230, AA372029, AI268549, AI702648, H75726, R99486, BG165410, H12317, AA814517, BE645111, AI348485, R99485, AI500402, AA975326, AA976181, R31047, AI348329, AI083736, AI369621, AI568988, Z41094, H66760, AI479912, AA086084, AI970578, H22528, W35148, AA971720, F12147, AA760693, H19816, H20389, Z43042, AA016275, AA782921, R05664, BE044409, F08012, A W973038, AA927449, H94692, BF766588, AA019859, A W151197, R56553, R05452, BE762898, H20197, A W006795, AI457786, A W002114, A W247925, AI937423, AA725110, A W505065,</p>

HAAA25	228	989952	1 - 1179	15 - 1193	<p>F16642, H03295, BE908382, AA532545, AI050857, BG118564, AA325830, AA374644, AA059195, H83994, R31828, AA054196, AA054082, H20967, AI783667, AA057217, BE867862, H22529, H45049, H43097, H45084, AA365152, AA059196, AA649840, R87459, AA862269, AI358452, AA936451, I23531, M94654, I23530, X60787, U58196, U58198, U58197, AR040823, AB052191, I48978, AK025435, AI133113, AI137284, X78627, AK027173, AF232009, AI137550, AL080139, AR050959, AF082526, E12747, AK026633, AL117587, AF271786, AF116682, I48979, AL137479, I89947, AL133637, I68732, AK026480, AL122110, AF116631, A77033, A77035, AF039138, AF039137, AF130110, AF192401, AF192402, AL133061, AK027101, AK024992, AK026541, AK025798, AF267849, AR011880, AK024978, AF124728, AL389935, AK026857, AR022283, AF260436, AR013797, X60769, AF116688, AB044547, A65341, AK026642, AL359583, AL122100, A21625, AX019230, AK027121, AF080068, AF031147, AX040974, AL110228, AL161964, D16301, U38419, AF087943, U62807, U49908, AX015915, AL162002, AF100931, AL133084, AF113694, AF145233, X83544, AJ299431, AF054988, M85164, AL137256, AK026434, AR034821, L04504, AK000083, AF130082, Y16645, E03671, I33392, AF183393, AK025015, AB024524, AL137533, U75304, AL096728, AL110223, A15345, AK027111, AL049339, AF111849, AL117460, AF106657, AK027129, AK027164, A08907, AK027102, AF090943, AL122116, AL122106, AK027217, AK000414, AF177401, AL080147, AL157433, AK026630, AF141289, AK025084, AB047878, AX020124, AL117457, AB047627, Y10936, A65340, AF130055, AF124435, AL133623, AK026556, AL136884, A57389, AL137554, X06146, AL137529, AF030513, AL157482, Y07915, AR038854, AK000502, AF013214, AF130056, AK025414, AF069506, AL137258, AF254119, AF090900, E01963, I32738, AC012502, AL137555, AL357195, AL050172, Z82022, A49139, AL050116, AF208850, E01614, E13364, Z30970, Z35309, AF113677, Z97214, AL049324, AF090934, AK026504, AK026597, AL122050, AF130100, AL110296, AL442083, AB040710, AF047443, AL096744, I25049, I25048, AL353956, AL080148, AF267991, AF314091, AL137657, AK024588, AK026894, AF119899, E05822, I33391, AF113699, A76335, AR029490, A08913, AK026844, AF017790, AX014101, AK025312, AK025658, AF262032, AL389947, AF119843, AF155656, S83440, AF265236, X68560, A08910, AL137480, AL080163, AL137716, A08909, X63410, AL049283, AL355719, AK027260, AL442082, AL133112, AF175983, AF111112, AF119883, S83456, AF113019, AR068753, A08908, A86558, X66871, AF119908, AF143723, AL080110, AB052200, AF115410, AF061981, X93328, AL2297, AC007172, AL110218, AL110199, I00734, AL137537, AF026816, AL080124, X97332, AF000167, T53454, R11440, R61875, H03294, H08625, H19815, H20201, H75375, H95897, H96280, N71552, W20181, AA001135, AA017682, AA039919, AA525887, AA903401, AA906704, AI089860, AA471142, AI093624, F02518, F09784, AI363880, AI445507, AI242341, and AI873173.</p>
HAAA25	228	989952	1 - 1179	15 - 1193	<p>AI680985, BG168038, AW945162, AW950652, AA554513, BE880730, BG170870, BE223010,</p>

HTEMI16	229	990060	1 - 784	15 - 798	<p>AA877139, AA807892, AA514409, BE674773, AI250782, BE546729, AI214214, BF541519, BE302087, AA625531, AA593396, AI224033, AI016409, AI538453, AI281360, AI274110, AI249030, AI539329, N22772, AA722760, AI093842, AA550843, AI140319, AW674698, AI828736, AA972406, AI688907, AI337957, AI339781, AI278350, W87861, AA975567, AA857219, AW167933, W87741, AI538452, AW862480, AI474024, AI278811, AA464600, BF913633, AA527483, AA477850, N31654, AV653447, AW610369, AA857170, H58025, AW610357, AA235530, AI051600, AW384171, H24033, AV653129, AW384172, R45453, AW023520, AW384760, AA737307, AI989439, BE697073, AA923634, AW129709, T29737, AA477744, AA568370, AA641366, AA344094, AA298522, BE887376, R11264, BE891714, BG256267, R43413, BG259256, AI286350, F02958, BF806630, AA908416, AA703369, AW021464, R48004, AA304930, AV711648, R11207, BE814225, H57934, AW751711, AW747912, AW998901, BF795814, R43857, BE140421, AW949294, D19854, BF911096, BE928366, BE928405, AA410662, AI003385, BE928395, BE928396, AR009803, X00364, K00535, D10493, M38057, L00058, X54629, K01906, X00198, K02276, V00568, M88116, M88115, M22728, X00247, X97040, X13232, Y00396, Z68501, K01904, E01841, L00039, X01023, X00197, AF160483, M15078, AF160487, X95367, AF160489, AF160485, AF160491, M25762, U37688, AX018968, AX000474, AX000476, AX018972, A76272, M19724, X66258, U62109, X53248, AF076523, M13930, I24429, and I24433.</p> <p>BF309104, BE559524, BE281458, BE385728, BE786863, AV756337, AA779378, AA806308, BF027226, AI955259, BG115810, BE257947, AI479643, AI201081, AA449114, AI523836, AW105647, AI371725, BF971945, BF037117, AI332998, BE791557, BE796212, AI832556, AI360813, AA812681, AI338226, AV733716, AI133351, BE795339, AI160821, AA417906, AA719870, BE744787, AI911189, AA652508, AA074869, AA677398, AA196804, BF685157, AA713507, AI028708, AA583945, AI949595, BE730232, AI804084, AV701912, AI272799, AI076158, BF684668, BE512992, BF037939, AA758900, BF686755, AI084956, BF667373, AI738876, AA593880, AA478598, AI081646, AA513306, BE793024, AA419554, AI192864, AI189240, W42538, AI401016, BF032897, BF207166, BF694324, AI242445, BF975403, AI094068, BF733159, BE878000, AA620875, AI188600, AA657626, AI274502, BF680048, AI187079, AA962082, BG176811, BF308448, AA463687, AA196803, AV744973, AI284416, AI224529, AA468047, F19538, AV709297, AA308585, BF244980, AI804825, AI871846, AA234166, AA234913, AA987467, AI127473, AI147167, AA187442, AA721050, AA233918, AI476030, AA234914, AA482379, BE698022, BE717214, AW795107, BE163110, AA463761, AA471119, AW873836, AA468083, AA872664, AA091369, AW844269, BE698050, AW844282, AI253673, AI220722, AA312835, AA969703, AA906776, AA229993, AA469001, AA468096, W31092, AA357299, AA318396, AJ003540, AW964407, AI687745, AA468927, AA720885, BF374556, AA628636, N44134, AA479333, AI186421, AA449548, BF955675, AA385197, AV742900, AW794203, BF797432, AA833536, BE833240, AA887208.</p>
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HWLAB90	230	990146	1 - 2999	15 - 3013	AA318716, AA187616, A1243176, A1371742, AA383017, BF819540, Z20217, AW602656, AW504060, AC006064, AF151075, D63880, AP002085, AP001631, AP001748, and A74500. AV714144, BG032179, AW970180, AW968919, BG166257, AA488919, AW193898, AI809235, AA975791, W91952, A1761005, A1670010, A1339783, A1033067, BF034415, AW130078, BG002378, A1859374, BE898684, AA873447, R56753, W67396, AA514367, AA468526, AW613857, A1272684, AW303839, W67251, AA614766, R97330, A1304566, AA574117, H56576, H10098, AA488848, H10045, BF367097, C00414, A1300710, A167837, AA918651, AW080712, A1015068, R97302, A1219130, AA977641, H81286, AA721681, AW630124, A1244872, R56905, H81342, W91879, AA009655, A1358594, A1991374, BF987177, H56577, AA886283, BF056410, R25858, BE091015, AF067817, AF118887, AF118886, AF067816, AF140280, and AF035442.
HOSED43	231	990184	1 - 796	15 - 810	BE293450, A1416985, BG259922, BE250091, BE409947, AW976132, AA127077, BG036566, AW006165, BG255815, BE267475, AW403861, AW408474, R47317, BF878882, AA074323, AW842660, BF825561, BF879325, AA806524, A1037897, BF932189, AU156313, BE788042, AW752809, AW752712, A1753037, AA602557, AU156024, AA127078, BE245636, AK001851, AK023509, A137818, AL356108, AL023755, and AK022251.
HNODF50	232	990254	1 - 1305	15 - 1319	AL517211, AL518669, AL518668, AL522147, AL521219, AL525965, AL521218, AL517210, AL526016, AL529841, BF310468, BE260926, BF528453, BF792486, BF968614, BE727867, BF969532, BE741455, BF968373, BG254612, BF206651, BE780582, BF315676, BE314740, BE778351, BF337363, A1052120, AU127936, BF967743, BG256216, BE794943, BE543980, BF037565, BE906194, BE778878, BF980637, BE618222, BE385237, BE907648, A1564007, BE250963, BE786495, BG036398, BE251987, A1539865, BE786563, BE264208, BE538552, BF239260, BE878498, BG118091, AW674383, BF313845, AW948987, BF669238, BF528446, BF125038, AW054769, BE262248, BE545571, A1921598, AA492511, AA587938, A1857898, AA633515, BF027253, BE697365, BF925551, AW341500, BF954735, BF977183, A1745475, BF954757, BE260934, AA769361, AA599303, AW956994, A1286245, A1274299, AW666003, AW958317, BE252135, A1252682, BE877011, A1382161, A1076260, BE618764, A1127273, AW190900, AA514755, AU150315, AW939258, A1906279, W73289, AA503533, BE777951, BF093632, BE163339, AW236251, BE266670, AW872807, AA653758, AA612989, A1440380, A1469422, A1271745, BF945505, A1873681, BF675437, BE967460, AA572935, A1910865, W73234, AW241946, AA804790, A1356494, AW674551, BG023980, A1208194, BE745501, BF528373, A1690448, BF724593, AW103110, BF994022, BF993923, BF991645, BF993922, BE972246, BF994018, AA806069, AA834818, AA305461, N30688, BF312335, A1289450, AW794720, AW794703, AA305936, BF993929, AA311372, BF677595, AA305330, F37016, BF993927, AW878217, AA654459, BF991629, A1215967, AA772577, H45301, BF803635, AW086134, BF994329, BF994316, H45074, R48780, H18284, BF994322, R78818, AA040670, W31677, AA708219, AA148170, AW340499, AW183355, BF993333, AW082264, BF993925,

HLWBV17	233	990255	1 - 684	15 - 698	<p>BF991324, R48885, AA854391, BE743249, BF572574, BF993909, F22269, H11318, BE816818, AI919387, BE929439, AA293184, BF993998, AW601441, AA551484, AI215973, AA040571, BE074790, AI684072, F25626, AA225507, BF229895, H45378, C00180, BF994312, W32101, U46271, C03223, AI918341, AA356495, T99316, AA371678, AI342719, AA300944, BF344854, BF446856, AA364820, AI871791, BF993916, BE769414, BF331401, H45041, AI206745, BF856284, BF993912, BF332671, AW268821, BE185060, BF856295, AW082610, BE766240, AW939875, N41296, AA143767, R73522, AA330825, BF572595, AW407942, AA293185, AW198148, AW885160, BE155766, BF737069, AW381772, AA810809, BE173861, BF570667, BF755706, AW582513, BE828404, AW843210, AA458493, BE155779, AA904696, BF743412, AW748144, AI139866, AI633937, BF572945, AF222742, AR048276, AK001416, AF038958, S45663, AC010527, AF038959, AC009004, AX041002, AX040958, AX040974, AL133655, EI3998, U30290, AL133053, AL133076, AL133084, AL133070, AL049423, AL133051, AL133049, AL122101, AL133607, AL133015, AL133608, AL136975, A90832, AR055519, AF002985, AR015970, AR034821, AX015526, AX030435, AF184110, AL122049, AC024067, AL110171, AB047966, AF126531, Z69719, AC004213, and AA494290.</p> <p>AI539865, AI469422, BG036398, AW958317, AI076260, AA492511, AI382161, AI921598, AA769361, BG118091, AI364007, AI052120, BE385237, BE777951, AI286245, AI252682, AI274299, AW054769, AW341500, BE545571, AI127273, AI857898, AI745475, AI440380, AA514755, AI690448, AI356494, AI271745, BE538552, AA599303, AW666003, AA612989, AI873681, AW872807, AA572935, AA653758, AA503533, AA633515, AI910865, AA587938, W73234, AW241946, AL518668, AW674551, AW190900, N30688, AI208194, AA804790, AU150315, BE907648, BF125038, AW236251, AA834818, AW103110, AI289450, BG256216, BF967743, AI215967, AA806069, AA148170, AA772577, AI525965, AA708219, R48780, AW086134, H45074, H45301, W31677, AA311372, H18284, AA654459, AW183355, AL521218, BE618764, F22269, R48885, BE743249, AA854391, AA040571, AI919387, F37016, H11318, AW948987, AL517210, AI215973, BE074790, AI684072, AA293184, C00180, H45378, AI918341, BF856284, AI871791, BF337363, AI342719, BF331401, BE769414, BF446856, H45041, AI206745, F25626, C03223, AW082610, AL518669, AW198148, AA143767, R73522, AA330825, BF856295, AA293185, AA810809, BE155766, BF570667, AW381772, AW582513, BE155779, AA458493, AL517211, AA551484, BE878498, AA904696, AL521219, AL529841, AI139866, AI633937, AA862050, AL526016, AA52564, U46271, BG150895, AA329184, W73289, AI809413, BF239260, AA664948, BF968373, BF746013, BE876454, AL522147, BE260926, N27632, AA225507, BE727867, BE251987, AW878217, BF968614, BE185060, AW340499, AW082264, AC010527, AF222742, AF038959, AF038958, AR048276, AK001416, and S45663.</p> <p>AW385298, AW834944, AI801294, AL048012, AW385250, AL048318, AI147487,</p>
HOCQH66	234	990435	1 - 3554	15 - 3568	

AW834975, BE207327, AW602060, AW834973, AW385294, AI814429, AA058619, AW385356, AA902817, AW385261, AW838397, AW068641, AI125527, AA977146, BF694540, AW385651, BE018904, AW069460, AA579845, AW385638, BE301092, AI754966, AW385640, AA662684, AW581139, AI633631, BF878408, AW385650, AW385627, AW385636, AW838695, AW848243, BG003095, AW578284, AW950688, AA025792, AW838697, AW067816, AI160086, BE018871, AA916433, AI312672, AW068642, AW385626, BE208320, AI123095, AI080534, AI129160, AW003402, AI190448, AW610207, AI650378, AI751474, BE939460, AA464278, AI079298, AW008904, AI753114, AI147847, AI921079, AW069596, AW838690, AW384905, AA464388, AW385632, AA042974, AA723144, AI754698, AW606828, R79130, AL047343, AW385625, AI825721, AI272862, AW818488, AL048190, BF375677, AI962411, AI357454, AI272866, BF357916, AI963455, AA954132, AA025791, AI751475, AW580247, AI754205, AA042927, AI978765, AI219182, BF732911, AI400590, AW004928, AI310057, AW848322, BF756603, AW068078, AI932634, AA030005, AW393481, AI751868, AA100085, AA383260, AI077475, BF750948, AW020383, AA358778, CI7742, AW385639, AW868273, AI139225, AI888266, AI138205, BE009637, H39918, BE350757, AI354649, AI421369, T27965, AW848470, AW473611, R35448, AL048011, AI341295, AW069475, AW471441, AW838686, AW751577, AA862923, AA716634, BE706049, AA367536, BE815887, H56289, H14894, AI365497, AI625217, R62651, BF881318, BF328333, AI341896, AA040255, BE716895, AI249066, AW069275, AW581369, BE815831, BE939589, AA852361, AW067878, AI191183, AI521666, AW182658, AA852545, AA853291, AA853205, AA852351, AI752085, R66734, BF085842, AA852637, AA852546, H56087, H47153, BE927989, AW068244, BF878970, AA334412, AA360911, BE815809, H62466, BE927982, R62603, AA948020, AA359993, AA853143, AA853845, H68869, AA853206, BF085865, BE172829, BF743880, AW068348, BE673154, AA295424, BF737866, AI445727, N87092, AW518915, AA295637, AA055352, Z18352, BF348861, H77700, AI910338, AA373385, BF852034, AI924679, BF085849, AW841507, BF870076, AA374488, AA330553, BE815849, U53096, AI933753, BF739081, BF743869, H47073, AA295592, AI983623, BE160978, BE842886, AI954497, AI927742, AL047976, AI910344, AW078820, BE677295, R79131, AA593508, BE160877, W21528, BE160966, AL048189, AI445530, AW834949, BF085889, N87776, AW151103, AW204360, R36363, BE149209, AI888646, AW029260, AW172935, F05794, AW770450, AW130740, AW839836, BF827830, AA345318, AA935401, X52022, AF064749, Z18279, M20778, AI6768, AF097996, I48978, AF260436, AB034701, I48979, AL133640, E07108, AF116631, AF130066, AF031147, AK026855, AL137459, AF113019, I89947, AF090900, AF113690, AF110280, AF314091, AL049283, AB052191, U42766, AL050116, AF113694, AL049314, AF116682, Y16645, A08910, A08909, A08916, AF192557, AF106657, AF119896, AL359618, AF130104, AL122110, AF116602, AK025967, AL122050, AF087943, AF130105, AI2297, X06146,

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HOGDC67	235	990546	1 - 1875	15 - 1889	<p>AL522719, AL530045, AL526479, AL515639, AL526439, AL515638, AL529665, AL521252, AL527656, BE797221, BE795409, BE798654, BE796334, BG252121, BE277057, A1608756, BE300022, BE513242, AU142632, AU117922, BF527825, BE561443, AU142525, AU122446, BE263145, AW301066, BE260541, BE798136, BE560713, BF527824, BE267445, AL522718, AL527657, AU124297, BF308205, BE877379, BF308460, AU132733, BE255304, BE265023,</p>

BF338557, BF311379, BE513266, AU143692, BE5623356, BE266414, BF791652, AI871376, BG249877, BE252210, BE264799, BE408400, BE560193, BE261710, BE396895, BE270104, BE867864, BG178512, BF239109, AI830886, BE396681, BE259458, BG165211, BE734141, BE734126, BE207184, AA573807, AI740482, AI338751, BE781372, BF203820, BE268015, BE787248, BE263802, AL525542, AI885121, BG110234, BE257792, BE544608, AA447235, BE905647, BE868675, BE780731, BE397152, AW129744, BE265464, AI129649, BE301587, BG178916, BE312439, BE560731, BF314279, BE742767, BE263992, AW438577, AA725787, BE266879, AI801359, AI565977, BE797493, BE251518, BE513287, BE018099, AI620805, AL518102, BE269017, AA442442, AL520286, AW732809, AI742805, BF308773, AW732602, BE261036, BE207766, AL531590, BG057267, AI150910, BE257550, AU148023, BE537984, BE259753, BF309159, BE266451, BE536801, AI953963, AI500189, AU159821, AA622716, BF243410, BE280053, BE206068, AA596071, AL522546, AW615606, AU159905, BF310290, AA216618, AU144612, BE538791, BF434627, BG027742, AI269576, BE267985, AI951507, BE396672, BE560172, AW613609, BE872243, AA308584, BE786769, BF342073, AI263957, BF203409, AA780318, BF541493, AW250471, BE544706, AI261521, AW136755, AA991652, AI364136, AL522158, AA527403, AI949019, BF337390, AU154207, AW997142, AW246783, BE549070, AA515546, AA777218, AW068675, AI750812, AA531576, W79142, BG169776, T07967, BE388369, AA618047, BG122861, AW967352, BG106404, BE542621, BF983668, BG152442, AI750813, BE207907, AA991316, BE264179, BE787043, AW068676, BF965929, AI362607, BF203257, BF794760, BF109494, BE260326, AW250648, H17358, BE905945, AA829407, BF803055, AA026075, AI863663, AW967344, BE296537, AI765992, W74467, BF307300, AW204975, H17329, TG4828, BE538072, AA037689, BE396430, BE257803, AI554637, AA099454, AA728940, AI695828, AA025484, BE257493, AA514445, AI933819, AA216653, BE304389, F03991, AA099453, AI263968, W84554, AA037688, BF345235, AI928562, BE296004, AI872605, AW050510, AA931240, AW733072, AI075343, AI096553, AA578192, T07966, AI868619, F12115, M77836, AF218000, AK001508, AL117348, R13411, R40922, AA514410, AA805032, D12335, F07737, F09753, AI284144, AW051080, and AW194659.					
HCDB002	236	990609	1 - 4074	15 - 4088	AU118049, BF027266, BE897159, BF975497, AI690844, BE619812, AU116976, AI683350, AU123898, AI638817, AI299947, AW851296, BE619491, AW080261, AW003342, BG261217, BE550518, BF435624, BE540593, AW604148, AW604144, AU133706, AA923370, AW604156, AW604159, AI963937, BE903781, AW994444, AI355003, BG251375, BF795838, BE142887, BE898687, BG031003, AW503445, AW769245, BE391639, BG250064, AW593387, BE387364, BE735143, AW390271, BE538744, BE885670, BE885477, BG179338, BE548753, AW117969, AW513655, AI827494, BE281406, BG257886, AW589828, BE537306, AW264359, AU149292, AW604151, BF342540, BF591073, BE901079, AI570870, AA812088, BE166616, AU148669, AI372056, AI339216, AW367000, AI188999, BE148064, AA948067,

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HODGN92	237	990611	1 - 492	15 - 506	AI114709, and BF515175.
HPDRP30	238	990751	1 - 2150	15 - 2164	BE736233, BE393462, BF979620, BG180451, BG031119, BE895899, AW015154, AI367256, BG250616, AW246035, BF589766, AA723883, AI339548, AI148428, AW518892, AI874244, AI339560, AW003788, AI653700, AA777268, AI261244, BE906120, AA847296, AW007179, BE293221, AW173770, AI346957, AI475948, AI143349, T65504, AI814098, R52652, AI339729, H39618, BE545311, F13535, BF980260, AV652617, and AL122073.
HBXFN09	239	990769	1 - 234	15 - 248	AA034059, BG169883, and AW998693.
HDTBO75	240	990913	1 - 455	15 - 469	AV752559, BE041424, AI374803, AV662297, W92499, AA431153, AW977181, BF439568, AA678183, AW834968, AW834907, AW837310, AA885002, BG028110, AA732329, AA732727, BF242398, AA432173, AW176741, AW580372, N55761, BF982207, AW241399, BF224093, AW970314, BF507800, AW970227, AA628895, AA766833, AA534395, N32238, AA347608, AW189247, R49979, N31980, AI650721, AI685214, AW511372, BG257682, BE549817, BG252929, BG167830, BG029667, BG113493, BF795712, AL039390, BF796402, BG261260, BG113712, BG163646, AL046681, BG178532, BG180295, BF968504, BG167093, BG114865, BF345716, BG111831, BF971261, BF965904, BG179586, BG111590, BG036465, BF968622, BG251851, BG165260, BG176936, BG104735, BG108452, BG035330, BF794212,

HELGN26	241	991014	I - 1609	15 - 1623	<p> BG164752, BG033403, BF347093, BG029194, BG176609, BF797998, BF983875, BG249858, BG036550, BG251257, AL046137, BF527274, BG111916, BF792586, BG030750, BG252019, BG181100, BG169376, BG024457, BG166490, BG180788, BG029128, BG261116, BG111100, BG028216, BG122277, BG171463, BF797137, BG119543, BF970425, BG180200, BG251476, BG178146, BF968453, AI249936, BG251076, AL042551, BG259829, BG115045, BG167751, BF797072, BG178879, BG165043, BE783067, BG257535, AA298135, BG120398, BG030516, BG259587, BF527413, BG114012, BG034554, BG180046, BF526526, BG110517, BG252778, BG120046, BG035653, BG110518, BF969185, BG168672, BG171608, BG169249, BG169238, BG106515, BG027368, BF339484, BG114853, BE897632, AW872786, BG171620, BE883591, AL045166, BE464688, AA938721, BG105318, BG116926, BE618455, BG171701, BF981492, BG177541, BE622452, BG168889, AF065391, AK023252, AF013965, AF013966, AF013967, AF065392, AL133076, AL133074, AX040958, AX041002, AX040974, AL133655, U30290, and E13998. </p> <p> BF970582, BF971269, BG035858, BG170653, AA527442, BF032717, BG255093, BF684481, BE304332, BF312957, BE740090, AI651618, AI700966, BE616023, BF439777, BE218172, BG259712, BF223565, AW328638, AW081016, BE312971, BE218745, BE880967, AW965885, AV688930, BF110536, BF223349, BE616836, AI659341, AI492019, BF037137, BG011544, AI801971, AA653440, AI763063, AI362810, AI830364, AA602677, AI799940, AI590301, AA156444, AI132754, AI693639, AI538876, AA935812, AI913180, BE262105, BE220203, AW872403, BF431624, AI478310, BE502628, AI963163, AI049932, AI867018, AI445763, AW328637, AW237634, AI686646, AI093564, BF309857, AI355982, AV692290, AW004960, AW628274, BE676445, AW168151, AI720994, BE501936, BE677346, AI624773, AI038791, AI673720, AA777083, AI241965, AI083640, AW513233, R50466, BF962310, AI990564, AA121215, H30620, AA101514, W67379, AA778130, AW139256, AW514997, BE897897, AI540831, AI824615, R39429, AI291349, AW193446, AA114190, AI241095, AW193788, AW589519, AA132803, AI687589, AA358948, H28151, W31255, AA912622, AW591011, AI538118, AW075509, AW614272, BE349060, AA456143, AA780923, H46616, BF529857, W67264, AW235829, AI686256, AA308514, AI538723, AA706294, N91821, R38344, AI811489, BE833082, AW663952, AI862679, BF856265, AI478217, AW338623, T24735, BF981529, BE242914, BF970481, BE272808, AW953574, AV709660, AV709314, AV727029, AW951768, AV728518, AV696931, AV706417, AV656256, AV703169, AW954237, AV692691, AV708893, AV709390, AV728642, AV686064, AV660728, AV691080, AV661704, AV655280, AV659322, AV708381, AV727935, AV699089, AV706721, AV687035, AV655096, AV707753, AV708025, AV704269, AV726103, AV705280, AV698545, AV729220, AV726816, AV695545, AV701707, AV656283, AV701914, AV705159, AW945168, AV658863, AW955012, AV727787, AV654908, AV652001, AV651955, AV696866, AV725920, AV704234, AV702516, AV709407, </p>
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HODCU15	242	991048	1 - 3173	15 - 3187	BE782829, BE166336, BE893914, BF963846, AI637581, AI635627, BF956699, AW615337, BE892490, AW081066, AA398002, BF246643, BF959925, BF943255, BF352768, AV714386, AA399078, and AC046129.
HOGDI51	243	991268	1 - 962	15 - 976	BE745148, BF314775, BF313468, AW972065, AW160403, AA190647, AI468027, AA732363, AI568476, AI815528, AW015158, BE315222, AW958765, AA725374, BF446080, AA668784, BF313148, AA058590, BE741366, BE261839, AA021327, H92735, AA627547, H96373, H85956, BE843878, BF058863, AA973647, AA018467, AL240617, AA383496, AW439263, AI925892, AW162022, BE694410, AI739208, BE694382, AI336026, AL044942, and AF007872.
HLWAF02	244	991516	1 - 569	15 - 583	AA421538, AL525449, AU153711, AW964455, AW964457, AU148695, AU149818, AU147714, W72446, AI004165, AU159170, AU151493, W31068, AW874565, AA295338, AW269624, AA577265, BF764205, AW732171, AV702593, AI863050, AW003851, AI190446, BF843436, AA417216, AA483528, W74385, AW748748, AA318970, BE795181, AA872030, W76345, H26877, AW384040, AW517019, AW884747, AI469697, AI370275, BF892944, AI017646, AV690726, AL036104, H99624, AV689538, AV698770, AV691815, AI421770, BF591512, R94006, BE782006, AV689959, BE169392, AV689985, AV689953, AF004539, Z41369, F09802, AK023231, AK001371, AK026645, AB040885, and AK023160.
HRKPA16	245	991654	1 - 625	15 - 639	BG259737, AW194396, AA143418, AA404619, AI608754, AU154417, AI374988, N63618, AU149063, AU152646, AW966669, AU152215, AI038547, AA443610, AI690852, AA427421, AW339887, W60354, W59988, AW118447, AA349493, AI445343, AA461548, AW993204, AL121201, AA946641, H59011, AI014721, R98999, AW103224, AU157188, AI357842, AA927255, AA843235, BE467545, T64658, AA887129, AA354545, AI811399, AW072161, H21841, AA805567, H88125, H49591, AI279415, BF912456, AI621314, AW993607, AU148527, AU157952, AA665881, AW468541, BF947706, BF084343, T24715, AW406139, H88124, BE174405, AA640305, AW021674, BF914416, AI754257, AA493464, AI572680, AA610644, AW051097, BF747303, BE328286, AA177130, AV651424, AA493245,

AA633804, BF947959, AA100107, AA676462, BF084979, AA846944, BF679568, AA579417, AW875184, BG059139, BF932382, AA730530, AW962268, AV683406, AI308529, H37968, AA425283, AW847028, AA338474, AA834891, AW975434, AW501278, AI567676, AW793601, T57562, BF541501, BE974200, AA493808, AA657808, AI344906, AI318548, BF736912, AI570067, AA179364, BE244722, BE063646, AA663579, AI376687, AA492496, BG152612, AW963625, BE158554, AA584360, AI702049, AV717475, AA847341, F04635, AA604601, AA482682, AA578711, AV753446, AW238242, AI831312, BG059924, AA935827, AV652066, AI445699, AI312267, AI242236, AI174703, AW963552, N49298, AW576221, AA772493, AW963295, BF823660, AI354377, AA639040, BE139230, AA129000, AI251460, AV740548, AA524604, AA610784, AI459794, AA313025, AW192002, AA320106, R92703, AI744199, AW069110, AA587835, AA502130, R92804, AI798573, AA493546, AI538404, AV712092, AA669225, AV763460, AI499538, AI631299, AA632355, AU146789, BG180320, AI547110, AW275585, AL121039, F01616, C15966, AW339694, D38524, Z96810, L47222, AC004019, AC007666, AC000052, AL132659, AC006166, Z96182, AC005730, AB023051, AC004650, AC010463, AL035460, AP000512, L47229, AC003090, U66062, AC003999, AJ271735, AB020873, AC002351, AC009516, AC006511, AC006315, AC005393, AP001712, AC002996, AC004975, AC007746, AC005399, AC005005, AC004213, AJ251973, AC005325, AC016683, AL138756, U91326, L47227, Z73979, AC004031, AC003014, AB035195, AC005666, AL049646, AF205588, D34619, AF207550, AC011296, AP000691, AC005000, AL356299, AC008720, AC005755, AL022723, U50871, Z97183, Z69721, AC011482, AL121967, L47225, AC007272, AC008521, AL139286, AC000388, AL157760, AC011444, AK000385, AC004953, Z69366, AL031427, AP000692, AL163301, AL138836, AC018751, AC004825, AL109798, AC008812, AL353807, AL079341, AC005911, AL122015, AC004686, L81692, AJ246003, AC007632, AC008738, AL139182, AL133163, U15422, AB046832, AL035690, AC002544, AC003665, AL132866, AC002357, AC002465, AC011811, AL136441, AP000280, AC004821, AL356747, AP001725, AC011480, AC010605, AP000694, L47224, AL096814, AL117374, Z81450, AC005071, AC004652, AP000107, AP000039, Z69375, AC005899, AC005202, AP001741, AL133342, AB032485, AL035587, Z95116, AL365505, AC005856, AC005052, AC005280, AL139343, AL022336, AC011462, AL050349, AC005837, AK024314, AL121886, AL138743, AC024082, AL031311, AF196779, AL031296, AL157789, AL022726, AL050328, AC009362, AP000553, AC004254, AL109758, AL138823, AC007510, AB039887, AC010524, AP000361, AC005228, AL008634, AC004893, AC005253, AL360157, AC006468, AC006942, AC006162, AL031666, AC005529, AL033529, Z97985, Z93023, AC006261, AL008716, AC005375, AC003098, AC004882, AC009228, AC005618, U78027, AL031657, AP001715, AL357992, AF045555, AC005519, AC018719, AL138832, AC008403, AL138733, AC006079, AL009181, AF111169, AC008739, AP001629, AC003046, AL035422, AC005410, AC018633, AC004386, AC020552, U07563, AL008734, AL096840,				
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HPDQX94	246	991761	1 - 776	15 - 790	AUI33068, BG109770, BE791999, BE260010, BE909913, AW195742, AV707197, BE312976, AV703890, AI088522, AW188226, BE393159, AA122237, AV751642, AA443448, W73858, AI741099, BE857070, AA724376, BE887952, AI421427, AA932230, BE073185, AI357586, BE512839, AI016288, AA115940, BF315243, N41317, AI423297, BF196664, AA843244, AI188255, AA770683, AU154475, AA913450, W73826, AI138932, N90753, AI913753, AI038148, AI127837, AI088260, AA781597, AI144232, AI363463, AA854712, AA825530, AA443313, BF239385, AI095110, W20418, W58687, W69502, AI028327, W73528, AI803249, H59104, AA933860, AA970638, BF680721, AV748822, AI128705, AA452952, W58686, AA582641, AI033287, AW263159, AV702086, H77347, AA286910, BG110576, AI301156, AV739424, AW993977, AA977957, AA825142, AW958007, AV744630, H49907, AI424203, H59143, H99044, AA971511, AA863091, AA296811, H77348, N92641, AI127018, H92900, AA884884, N30701, F30810, AA296822, AI219594, AA888566, AA962759, W73474, BF926138, BF681033, W69503, W93965, AI698882, AV750055, AA296691, W39151, AA883845, W93999, AA612823, F16300, AA565275, BF752259, BF087615, BF899291, AI884303, U77604, and I84662.
HEAAY09	247	992678	1 - 391	15 - 405	AUI24283, BF306200, AU139037, T77235, AU121920, R14830, BF934985, AW403909, AW630865, AA359207, AI929350, BE552049, AU118152, AU133500, AL037780, AL037781, AW163588, AU119533, AL533231, AI342324, AL525586, AL534903, AL532560, BE082428, AL533180, AU137962, AL533149, BF307401, AW394232, BG114142, AU133890, AL517501, AW160514, AL536801, AI929125, AU126141, AU139293, AW368666, AU133708, R99660, AL532677, BE612412, AL513758, BE299128, AU135050, BE742584, AU129935, AI309542, BE886331, AW163176, BF346813, BF220002, BE512694, BF361085, AU134988, AW842087, AW842088, AW842086, BE541071, BF528575, AA178907, BE617099, BG178536, BF340570, BE891863, BF091880, BG109816, BE410513, AU140111, BF346953, AI201385, AA781408, BE894297, AU127156, BF316594, AU134195, BF528479, AA398237, AA403177, AA347489, BE897187, AA634306, BE873260, BG257621, BE891934, BF037637, BE796323, AL047517, BE890489, AA668405, BE544513, BF311830, BE529750, BE548934, BE314356, BF527194, AI018415, BE544804, AA192090, BF345146, BE539195, BE896937, AL037971, H79173, AA191007, AA160986, BF343228, AL036607, T96350, AI191902, AW246288, BE149595,

HPDRH78	248	992780	1 - 1583	15 - 1597	<p>BF967134, BE746173, T86587, BF724976, W52305, AA159846, BF757246, AA808915, BF966188, AW163313, AA635058, AW163830, AU137163, AI879210, AU134072, BE512816, AA410907, T07973, AL533419, AW162005, BF724415, AW364192, R84319, AL036626, T09356, AL036544, AA085075, BE279666, AW162094, AI816208, AA369795, AW160383, T75456, AA204760, BE707293, BF832811, H11161, BE708222, BF335706, BE697593, BF335701, AX015399, AR075662, D38585, U35048, AJ222700, AK027071, AL138960, X62940, AF201285, L25785, and X97299.</p> <p>AL517707, AL526969, AL534602, AL517706, BE793392, BE793400, BE798802, BE274603, BE793463, BG179834, BE796319, BE730416, BE799085, BE622275, BE797197, BE895295, BF684516, BG180391, AA313808, BF128627, BE902688, BF974046, BF309165, BF035424, BE542126, BE378892, BE279546, BE389149, BE264217, BE746282, BF980789, BE792649, AA143543, BE390945, BF939857, AA247475, BE254943, BF087367, AW602074, AA143677, AA669128, AI619455, AI885489, AW674128, T66216, AV653122, AW771167, AW673887, AW952242, W17242, AA465232, AA662828, AW156961, AI423378, C14781, AA847816, AI082555, AA064998, AI699796, AI654002, AI400301, AA976430, AA847635, BF129286, AI357386, AI371760, AA838647, AA465587, AA046948, AW083621, BE149761, AI252222, AI57527, AA907174, BF858322, AW247996, AA065085, AA366802, AI927121, AA366778, AW006612, AA001409, AL534601, BE859074, F12200, BF973830, AW904428, N89759, AI648415, BF090228, AA373821, BE936261, AI752839, AA610398, AI889695, R22510, AA383297, R22509, AI445855, D81188, D81094, C14780, F01851, D81093, AW472987, BF843018, AL037280, AW818769, AI801700, BE503553, H85986, AI251103, AW273610, F09830, AA321564, Z42323, D20815, BF747217, AA027150, BF746814, R12421, H71469, AA988870, AA835430, AI264946, T66149, AW839241, H86346, AA579666, BE538136, AV660656, AX011690, AF282851, AK000474, AP001714, AP000037, AP000105, AP000275, and AL355729.</p>
HLMHG68	249	992900	1 - 1331	15 - 1345	<p>BF967276, BF967822, BE675848, AI693547, AA398062, AW044341, AW117949, AW468685, AI801370, AA890730, AA778640, AW001899, AA456064, AI434131, BF508778, BE833021, AU145029, AI033982, AI826270, BG026214, AA455567, AA652457, BF108431, AI458156, AA918511, AA515452, AA631567, AA687760, AA573416, BE045477, F22701, BE546175, AA292780, AA477424, AI699125, AW770290, AA310438, AW884291, AA640186, AA290862, BE774653, AI686681, AA479585, BE881951, AA394172, AI394051, BF361999, AA291044, AA150391, BF855032, AI816954, BF737256, AA291855, BF869437, AA291733, BG259202, AL044192, AA768725, AI366983, AI701948, BF915315, AI926593, AW102900, AI345746, AI537516, AW079768, AI632981, AI608802, AI597805, AI636788, AA830821, AI050666, BF816031, AI923279, BF817746, AI951222, BF921215, BF913569, BF914101, BE393551, BE315058, AW083804, BF913568, AW129269, AW265004, AI699154, AI702540, N74355, BF305318, BE613727, BE965355, BF913615, AW301406, AI718161, AI923272,</p>

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HODFO57	250.	992973	1 - 2135	15 - 2149	AL521538, AU125521, BF793744, BG258951, BE796240, AU129772, BG256358, AW134800, BE253092, BE539282, BF822222, BE676509, AI884675, AI356274, AU159541, AI922366, BE676139, BF154835, AA522887, AI983195, AI652380, AA614362, AW193792, AI093421, AW474923, AA236204, BE939312, BE675234, AA131740, AL045292, BF478117, AU149161, AA781085, BE674720, AW514745, AI417244, AI093127, AW379958, AI276637, AA131671, BE252897, AW590126, AW379963, AW205128, AI289900, W28544, AA775698, BF589820, AW513803, BE257415, AA559118, AW571703, AI570252, AW630205, W56287, AW150930, BF746091, AI873877, AI813283, AI873584, BE939111, AW379959, AA256931, W20295,

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HOCpz44	251	993380	1 - 970	15 - 984	BF308448, AV733716, BF667373, BF971945, BE791557, BF207166, BF685157, BF680048, BE730232, BE744787, BE257947, BF684668, BF686755, BE795339, BF032897, BG115810, BF037117, BE796212, BE512992, BF694324, BF037939, BF244980, BE793024, BF975403, AV744973, AA196804, BF733159, AA074869, AV701912, AW964407, AA308585, AI201081, W31092, AI911189, AA187442, AI332998, AA449114, AA196803, AA677398, AA652508, AI832556, AI360813, AI479643, AI371725, AI949595, AI523836, AI338226, AA583945, AI160821, AA812681, AI955259, AI272799, BE786863, AA463761, AA133351, AW105647, AI687745, AA471119, AA417906, AV756337, AI028708, AA779378, AA806308, AA719870, AI804084, AA628636, AA713507, AI076158, AA758900, AI242445, AI738876, AA513306, AI081646, AA593880, AA478598, AI192864, AI084956, AA312835, BE163110, AI189240, AI401016, AA419554, AA229993, AV709297, AI871846, AA620875, AA468096, W42538, AI094068, AA357299, AI188600, AI274502, AV742900, AI187079, BE385728, AI243176, AI284416, AA657626, AA962082, AA479333, AA463687, BF309104, AI224529, F19538, AA468083, AA468047, BE559524, AA234166, AA234913, AI804825, AA318716, AA987467, AA318396, AW795107, AA449548, AI127473, AA234914, BE717214, AA233918, AI147167, AA721050, AA469001, BE281458, AI476030, AA482379, AA385197, W42473, AW873836, AA091369, AW844269, AA383017, AW844282, AI253673, BE698022, AA969703, AW300509, BE698050, AI220722, BF819540, N44134, AJ003540, BE833240, BF374556, AA468927, AA720885, AI186421, AA872664, AA366125, BE549139, BF027226, AW794203, AA906776, AW403920, AA833536, AA887208, AL079619, AA187616, BF104085, AI371742, BF675494, Z20217, AW602656, AC006064, AF151075, AP001631, AP001748, AP002085, and A74500.
HPAMU38	252	993403	1 - 2925	15 - 2939	AL524221, BF974727, BE905660, BE906439, BF972299, BF339849, BF971432, BE871633, BG258581, BG027617, BG027987, AL043542, BE262313, BE547005, AW964993, BF129017, BE894197, BE859070, BG106537, BF304618, AA812224, BE882690, BF109975, BF541992, AI075752, BE735522, BF950143, AW408171, BG058798, N32170, AA861404, BF343941, AI859140, AA630418, AI524267, AI888719, AL043543, AI571362, BF972284, BF111665,

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HNGGK47	253	993602	1 - 686	15 - 700	<p>AA587109, AW813774, AW959611, AA149541, AI184943, AA283852, AA915990, AI754552, BE146143, BE146078, AA192458, AI276859, BF058388, AW968813, N25247, AA179831, R50526, BE906097, BE748870, AA489709, BF058508, BG001227, AA600248, AA149622, R50552, AI831786, H60862, BE748864, AA159263, AA912651, AV704542, AI360851, AI094704, AA151772, AA088441, AA130533, AI732442, AA130457, AA115727, AA132985, AA156548, AA100473, AA156552, AA133314, AA146791, AA115406, AA085900, AA506505, H30250, AA130431, AV705967, R50721, AA156558, AA593788, AA134890, AA160532, AA115791, AA056456, AI732411, AI144451, AW975853, AA837803, AI732210, AI732209, AA527289, BE145948, N43184, AA216639, AA233457, AA055823, AI535936, AI242047, BE146358, BG255562, AW817478, AA418333, AI264351, AI274932, Z99365, AA132266, AA155720, BE675378, H69025, AA483160, AA484178, AI685396, AI479610, AA152342, AA890486, BE146091, R78417, AA219599, AA223178, AI052113, AA100721, AA703512, AA213692, AA627379, R98355, AW593679, AA102795, AA227040, AW341960, H38219, T53321, W28465, AI762542, AA052890, AA242847, AA252138, AA134470, AA099427, AA129454, AA135403, AA102232, AA135390, AA689437, AA173762, AW129244, AW007800, AI017153, AA227186, AA548735, AA308744, AA223472, AA772499, AW854595, AA962219, AI636602, AI700160, H51291, AA055663, AA984688, AA100673, AA143593, AA528777, AA838754, AA434477, BE748279, AI949977, BF673870, AI280212, BG013985, AW969910, N66779, W25656, AA025824, AA424412, AI743039, AA135407, AW966820, BE741129, AI285813, AA405703, AA832265, AA157818, AA219559, BF816863, AA424458, AA936323, AA196784, AW967555, N71300, AW962131, AI820789,</p>

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HODGN51	254	993754	1 - 648	15 - 662	AI207402, AW983839, AW983779, BE267153, AF074693, AL157598, AW813858, BE393346, BE142616, AW819892, AW819887, BE161913, BE179562, BF343443, BE062392, BE143181, BE069054, RG104743, AW820198, AL157534, AW847202, BF686579, AW811905.

AL118852, AU149172, AA128858, AI114529, AU122382, AW983740, AI920994, AW852539, AW811815, AV711736, AU121228, BF082163, AW893700, BE065237, BE155635, AW938300, AW811963, BE065599, BF839073, BE065597, BF980482, BF344952, BE728951, AL532687, AW847178, W03511, AA579202, AW862582, BE549207, AW895657, AW962193, AW811877, AW811885, AL119839, AA736433, AL079961, AV730967, AL044792, AW854552, AI086283, BF918604, BE047760, AW887035, AW937815, AA808968, BE780820, AV682071, BE408894, AW855467, BE781027, T07197, AA129985, BF876571, AW902213, AW834551, BE245825, AA018943, AW861625, AW811646, H82488, AW105462, AV722355, BF881870, AW834553, AC006399, AL034412, AC004029, AC005137, AL080239, AL022401, AC005068, AP001960, AC018468, AC004103, AL133370, AL449163, AP002027, AL139009, AL163278, AJ229041, AP001724, AC006222, AL049844, AC007282, AL163284, AL121867, AL356913, AF036876, AF003625, AL133417, AL137157, AC009241, Z95126, AC002067, Z99572, AC008912, AP001669, AC004478, AF274857, Z99289, AC004388, AL354653, X87344, AC005999, AP000127, AP000205, AC002367, AC005491, AL096827, AF241733, AC016831, AL445189, AC009949, AL132827, AC002071, AC024153, Z97198, AL049792, AC006484, AC020755, AL135926, AC010719, AL022578, AC026197, AC003091, AC004994, AL121757, AP001709, AC007313, AC004911, AC003081, AL049778, AL133247, AL109759, AL132668, AL117340, AL049176, AL391294, AC020637, AL135922, AC010235, AC005018, AC006249, U96409, AC004128, Z83848, AL360270, AL117347, AC011362, AL096829, AP002026, AC006054, AC008509, AL009176, AL049823, AL360174, AL157375, AP001331, Z95325, AC005588, Z83850, AL355530, AC010198, AL391689, AC005352, AC005823, AP002532, AL049838, AP001760, AL049565, AL035246, AL121986, AB014085, AC006313, AL049875, AL035423, AL117191, AL009028, AL034370, AC004187, AL445306, AL050308, AC008583, AC007731, AL136372, AL079303, AL133241, AC005500, AL021069, AC009404, AL163280, AF055066, AL022399, AL031074, AL354977, AL157837, AP000515, AC007514, AL137016, AC009514, AL121882, AC010685, AC006478, AC011890, AL122003, AL354685, AL135786, AL022100, Z83745, AL109934, AF110324, AB045358, AL356513, AC004852, Z98753, AL157413, AC007364, AL354750, AC003106, AC087085, AL031965, AC009505, AC012000, AC005873, AC023510, AC009508, AL356473, AC018513, AL390237, AC008770, AC025614, AL031054, AL135960, AJ131016, Z70050, AC007878, AC010436, AL022727, AL355836, AC026341, AC007444, AC009229, AP001708, AC005019, AL158157, AL034410, AC008833, AC006327, AL137015, AC005303, AL161804, AL157779, L78810, AC005539, AC007751, AC006287, AC004973, AL034406, AL121958, AL137061, AC009430, AF235098, AL049794, AC005024, AC024067, AC000110, AL445249, AC020603, AL121880, AC073165, AC004043, AL356799, AL133226, AL136297, AL161905, AF003530, AC000049, AC013447, Z82210, AC008177, AL035427, AC007528, AL022400, AC022274, AL118496, AP000493, Z98255, AL360157, AL359715, AC002523, AC002468, AL139093, AC002426, AC078854,					
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HODCT60	255	993806	1 - 673	15 - 687	BG150704.
HAQBV81	256	993918	1 - 813	15 - 827	T68150, AA664288, AA113062, AL045561, H63748, BE350958, BF821840, AA190633, BG120327, BF994701, AW582857, and AW582794.
HDTGR49	257	993931	1 - 1643	15 - 1657	BF516217, AV732160, R83419, BG255616, BE171964, F27801, BG253577, AW474317, BE162826, AV755592, and AK002081.
HOBEN62	258	994134	1 - 642	15 - 656	W68274, AI073484, BE435303, AL524870, AL528375, AL524871, AL529901, AL528409, AA528652, T58395, T58350, AI242994, AL048969, AA713712, BE154526, BE154518, BG111530, AA569631, AA484658, AW275432, AI269832, H90845, AW263396, AI523991, F13773, W03981, AA129133, BE154459, AA526426, AW855982, BE158756, BE158799, AA988320, AI768952, AA348511, AA569586, AW885762, AA224238, AA489571, BF876739, BF877700, AA283455, BF877694, AA934825, AW974136, BF978936, BG058309, AA210951, AW833189, BF977345, BE154446, AA069473, AW238386, AI611736, BE154584, BE154524, AA368073, AA599710, AA368633, AI369977, AA708889, AL134280, AA557764, AA372884, BE179742, AW438765, BF92129, BE739174, AA664942, BF810146, F00818, AW817905, BF244176, AA714276, BG006133, AI819525, AA720531, AA908331, AI378950, AA601237, AA910680, AW387775, BE179910, AW387778, AW572140, BF978162, AI500563, AA411171, BF691653, AW769859, AI354388, BF833448, AA635135, AW510403, AW473996, BE961047, AW409710, AV739833, AI690379, AV695910, AW410354, BF212465, BE870750, BF571687, BF978010, BF691393, F01694, BE777501, BF977222, BF978508, BF691774, BF211406, BF238352, BF979045, BF690603, BE961172, BF692655, BF572980, BF184128, BF571004, BF184981, BF692099, BE777568, BF692045, AA581352, AW820694, BG110818, AA993041, AA584133, AA594072, AA599115, AA599143, T50205, F00112, T84169, BE888068, AA828062, BE147527, AA669985, AA297199, BF762987, AW087537, BF213033, W02403, AI870453, AI919048, H70469, AA719201, AI831171, AA381216, AA101744, AA744084, BF676352, AA512999, T87481, F29968, BE002881, AI230815, BF803608, BE154517, AA745459, BF921846, AA744068, AA745533, R51854, AV694805, AW272389, AA745393, AA477103, AA639040, BF957365, BF915592, N58546, D29424, AI869406, AA985240, AW004922, BF831769, AL048090, AW192199, AW571499, T50255, BE886807, BE302658, AW439867, AA584814, BF917819, AI984742, BF879039, AA568127, H60396, AI635245, AL039669, AA525753, AA569474, AW387786, AC022392, AL359339, AK023436, AX048077, AF132952, AC005154, AC002449, AC011290, AL031985, AL008628, Z70289, AL161938, AC012099, AC006028, AC006578, AC005520, AF196969, AC007487, AL031575, AL109843, AL030996, AC004914, AC005697, AC010582, AL159985, AL035405, U95739, AL161670, AC004980, AC005831, AC000120, AC078899, AP001409, AF008243, AP001417, AP000160, AP000018, AC005899, AP001635, AL033543, AC009312,

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HSKGR42	259	994234	1 - 536	15 - 550	BF665644, BE617899, AW975289, AW370221, BF700281, AU154495, BF334587, AW673900, AA648105, AA186588, AV758959, AI858160, BF088091, BF694157, AA659697, BF131572, AA134338, AI914719, BG117553, N71529, AU155727, AA120820, AW363311, N22162, BE617450, BF155707, BE168417, BE879249, AU128878, AW996843, BG261212, AW576295, AW268074, AI343171, AI311237, AI335437, AI344929, AW274348, AI336661, BF239659, BF082539, BF438758, AI741448, BF108773, W73136, BE005344, BF829286, W73116, AI251367, AK000741, AK001701, AK001452, AK023438, and AF086334.
HOEBQ85	260	994356	1 - 1053	15 - 1067	BF980115, AI056683, AW071598, AA393981, BE350760, BF508825, AA053954, BE048405, AA397906, AI336420, AI022052, BE253405, AA007404, AI090549, AI147131, AI298335, N69649, AW627842, AA723269, AI671126, AL043975, W58502, AI051785, AI670024,

HOPJG01	261	994536	1 - 1376	15 - 1390	AA639760, AL043976, BE410449, BE220726, BE728986, AW628468, AA707486, BE141443, AA034435, BE141442, AW386728, AL040334, BE304515, BE302700, BE304702, BE408918, BG165005, AA478114, AK024475, AL117435, and N71204. BE793580, BF966696, AL527978, AU142696, BG112976, BF038095, BF339980, BF346274, BF525737, BF343070, BE796871, AI660492, BE795029, BE740676, BF338457, BF342629, AW157045, AU142854, BE779472, BE791809, BF348176, BF340334, BG108431, BF341150, BE963752, BF337746, BF528606, BE799928, BE251212, BE795188, AU142971, AU123853, AA608630, BE799766, BF984658, BE793148, BG178895, AU142368, AU142683, BF313309, BF435460, BG026841, BF680862, AW163707, AI929171, BE293477, BE799635, BE871928, BE207262, AW276503, BE382663, BG056162, BF205980, AI858505, BF311248, AW250342, BG035351, AU119034, AI573104, AU132674, AW247120, BG056369, BE207051, AI566557, AA126454, BE293760, BF340125, BF343144, AU143052, BF341561, AA194148, BF206123, BE206913, BF317056, BE907374, BE249879, AA582085, BE907893, BF310434, AI887640, AW615498, AW245039, BE260787, BE618820, AI880285, BE791120, AI859252, BF526752, AU123414, BE464593, AA778344, BF316388, BE253881, AW157606, BG059864, AI418820, BF434994, AI360942, BE788830, AI097502, BE798646, AA770622, BF337854, AW087978, AI921292, BE348883, BE546108, AW732146, AI653881, BG059738, AI023190, BE792435, AA194087, AA595219, AI025155, AU159706, AI085502, AA911630, AA744512, BE973865, AA534937, AA743675, BE262210, AI421284, AA581421, BE545834, AA604154, AA609450, AU145465, BE206914, AW163012, AU160213, AA52532, AU129356, AI929749, AA541593, AI363424, AA434310, AA069319, AI359872, AA968682, AA526861, AU160054, BE312609, AA621196, AW328427, AW384946, AA565664, AI460077, AI929377, AV709913, AA100233, AW163104, AI083875, AI344608, AA682988, AW072500, AI241695, AI366155, AA931506, BF344959, AI340434, AI927283, BF568570, AW248160, BF344603, AA011195, AI459660, AA689477, AI342248, BE858289, AA132540, BF966506, BF958070, AI298268, BE2553399, AA635801, AW751546, AA955595, BE390802, AI089995, BF725281, AI282676, AW604964, AI719470, AA583085, AA593293, BF315079, AA729139, AA069373, AI940441, D54574, AW384914, BE671540, AA340245, AW84886, AI003397, D54696, AA156911, AI312413, AA427771, AI167483, BF822526, AI334066, AA130945, AI758341, AI348853, AI701237, BG056893, D55009, AW578066, W07297, AW604991, BE617959, AI869294, AA854599, W27359, BF057992, BF718433, BF718300, AI184838, AA814125, AA088243, AA984724, W32696, AA856797, AA397722, AI858542, BF951374, AA811595, AI266757, BF945422, W32697, AA975437, AA508200, AA156608, AI135907, AI051113, AA017372, AW604994, AA641157, BF945444, BF945443, AA903069, H49325, AI345697, BE252817, AI056127, AW374724, L47647, M16364, M16451, AR084972, M11306, M13453, M14400, M57664, M74147, M74148, X15334, M18668, M74149, K02831, M11660, AF120106, M10012, X00954, AF274307, X53859, AC005781, AC007225, M60806, X96403, M21243, X96402, M21242,
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HKBAK06	262	994596	1 - 655	15 - 669		<p>AA292552, BE369091, AA001348, BG034403, BF680183, BF982202, BF972408, AU134714, BG255510, BF038517, BE382500, BG117853, BE267636, AU133407, AA082436, BE780204, BE535736, W44552, AU122890, BF204311, BF972973, AA081745, BF026531, AU127144, BG029609, BE904738, AU122938, BF242872, BF309946, AW960304, BE297387, BE883368, BE261919, BF033958, BE897037, BF212585, AA158070, BE369085, AA292753, AA476873, BE884804, BE269819, BE900753, BE314366, BE786840, BF035084, BF726787, AA926959, AA177048, A1719075, BE279271, BE778624, AA469909, N49786, BE706261, BE972278, AV685130, AV713469, AV714168, AV687846, BF246905, AU126674, H77575, R97470, AA037172, BG104737, AA908783, AV714475, A1935150, AA926960, W76521, BG249990, BE892033, W04339, AA405677, BE255916, BG104736, A1857576, BG179540, AV698081, R98127, AA293140, AV692796, AW662396, AA910644, AW514667, AA584410, AA889955, AA459522, AV716974, AW371701, AA583187, H78746, AW371667, A1828996, BE903886, A1865147, T55938, R75953, BF910357, W21526, W72395, A1422691, H03265, T77589, H83186, AW069734, AW613002, BE566245, W25243, BG033485, AA872039, AA527373, BF746365, A1423153, AA776920, H72525, R99156, AW104725, H03513, AW024595, AA100926, N31428, AW262230, AA621337, AW972459, A1204630, T88980, BF900364, T29812, H98460, AA772418, BE909377, BF205360, AU154749, AW886710, BF900351, AA662522, AA282997, H42079, W80565, BF507531, W95096, W24270, A1630359, A1459432, A1033892, W25071, A1423513, R54703, A1090262, A1831360, A1312104, A1804532, AA627684, N95210, AA769633, AA617681, W25611, AA416871, A1094597, AW391855, A1139549, AA633648, A1075239, A1339996, A1991988, AA740817, AA701623, N78215, AA129784, AA399239, N86396, A1362835, A1034317, A1336880, H99551, N83673, AA480310, A1989380, A149836, AA643280, AA932124, AU117372, BF793467, N92892,</p>

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HKGCN61	263	994664	1 - 1002	15 - 1016	AL526805, AI532675, BF568818, BF975676, BE378603, BE275224, AI924198, AA643194, AI309624, BF568408, BE908971, BF568499, BE385963, BF971390, BE262270, AI954015, BE389035, BF317394, AI862773, BE384108, BF316998, AW954240, BG255355, BE387330, BF215641, AI300492, AV705042, AI571484, AI708237, BE267988, AA772150, AL526773, AI963066, BE265217, AW583307, BE267984, BF207808, BE885366, AW082898, AI554351, AA905048, BG058692, BE858566, BF431959, BG031824, AW873616, AA484736, AI243757, AI924677, AW304210, AA056581, AW328052, BE386932, AI887613, N52247, AW015277, BF726042, AA037075, AI092433, AW583724, AW070340, AA446995, AI096768, AI039582, AU143962, AW021398, N39299, BF216019, AA682891, AA897545, AI241411, AA468723, AI027327, AA503806, BF569049, AA834926, AA902862, AW328127, AI091496, BE676690, AI376786, BF337861, R91343, AA448467, AAG09074, AI358828, AA651870, AA143139, AA052970, AA911153, AW241215, AW290993, AI804639, AA001193, AW020020, AI024157, AW572581, AI866825, AW016319, BE907946, AW021471, AA805372, AW015233, H82552, AI400288, AA917723, AA938524, AV750655, AI037929, BE088452, AI673478, AA533610, AI290857, AW769953, W67130, R97256, AA904951, AW340505, H22433, AA053447, AI310161, F24749, BE185312, F19447, BE242972, AV746492, F28239, AA365755, H87901, H56065, F31714, AA969644, AI287714, N34577, AV660944, AW328053, R55213, AW028384, AA506078, AI050822, AA843353, AW572594, AA296650, AW884694, AI041792, W67129, AI357504, AA056685, BE677849, T84900, AI915408, AI678129, R55210, AI311793, R97020, AW151468, AI005405, AI393159, T91318, AI798212, AA770285, N91398, T55560, AA143379, BE170083, AA809332, BG010512, AA934707, N45147, AI282846, AA968881, H40291, H18341, BG029457, H38979, AW805564, BE936154, N69370, BF155976, N53131, AI918485, BF155969, BF155973, H87357, BF155972, T25428, BE938005, BF831914, AA588800, AI005569, AA885911, BE242874, BF088463, H56260, AU126287, AA889514, BE702510, BF957306, H22470, AA453054, H46707, BE185337, H39174, D20650, AK000574, AX015413, U47101, AY009128, AK022758, AY009127, AC008119, and AC007793.
HTXDY55	264	994699	1 - 276	15 - 290	BE241618, BF967213, AU136610, BF980823, BG167993, BE904497, BG166879, AA316320, BG108260, BF032916, BE219939, AA429187, AA446365, BE327680, AA121059, AI681670, AW651689, BG028658, AL523554, AI929475, BF210951, AI984608, AW367123, AA262627,

HFOYI37	265	994776	1 - 739	15 - 753	BF966433, AF035606, AK001917, and U58773. BG109766, BG105926, BF692516, BF664251, BF688436, BE875390, BG109747, BG035909, BF970556, AW250576, BE900583, BG026679, BE878884, BF794165, BF976452, BE736120, BG031147, BE729357, BE877578, BE795468, BF688232, BE746139, BF245353, BF338554, BF244479, BG036485, BF982066, BF313910, BF036466, BG109842, BF791758, BG034461, BG117069, BF792758, BG114839, BG033722, BE886095, BG171042, BE257620, BF307047, BE735602, BE299813, BF342847, AV01221, BF663327, BE900645, BG251353, BF727139, AV743879, BE874785, BF983850, BG112494, BF793074, BF965863, BF663279, BG036333, A1751041, BE727591, BE889746, BG031486, AV734449, BE544132, BE254377, BG029536, BE270481, BF965283, AL535797, BG107168, BG258064, BE267387, BE872741, BE738044, AV752441, BE270455, BF797372, BF036710, BG113386, BF964816, BE786378, BE879576, BE904807, BG025904, AW014150, BF965061, BE728776, BE883341, BE260961, BF126057, BE907972, BF718407, BE905940, BE905659, BF239138, BF718612, BG122417, BG256185, BE728227, BE312855, BF240138, BF242457, AA642852, BE880883, BF718532, BE538681, AA307553, BE538643, BG029238, BF681352, AV743427, BE787767, AW327840, BF212711, BF214381, BE906403, BG120301, BF038389, BF032831, BF689246, AA308582, BE884573, BE568338, BG112395, BF718776, AA316955, BE737786, AA535287, BF102789, BE881558, AA316284, AA308670, BE874983, AA316553, BF718683, BF029119, D56272, BE737963, BG115963, AV739694, D51124, BE565428, BE738399, AV738913, AV712380, BF718622, BE784801, BE877028, BE865693, BG169727, F20819, BE298062, BF211274, BF315518, T27636, F24452, BE739645, BE738206, AW068298, BE261442, BE738273, BG034437, F37402, BF571319, BE395762, BF310625, BF697600, BE313174, BF244308, BF303726, F25324, F20636, AW957333, BE563923, BF303651, AA146868, BG110622, AA315892, N77939, BF571305, BF718598, F33134, BF125885, BE960878, AV738228, AW408000, BF210245, BF029247, AW327881, BF700470, F20282, BF238356, BF245722, F30691, AV710336, F30820, AV738364, BE906206, F27818, AA306499, BF215958, AL036559, AW404866, BE790264, BE277269, AA143290, AV724929, BF212390, AA157054, BF796856, BE277011, BE514876, BE389163, W03894, BF215956, AA385201, F24576, F28257, AA501970, AW022377, AV708457, AA533618, BF718795, F32109, BF055644, BF240053, F32578, BF238936, F30162, AA179118, AW021281, F31767, BF185361, BF791484, BE258863, AW020382, F26077, AI309282, BF669141, F31195, F26670, BE734016, AI525222, F31722, F22445, F27271, BE739184, H02747, AW518445, AW328274, F27843, AW024028, D14530, AC010598, AC005406, X77398, AB007158, AX046357, AR066494, AR060234, AR069079, AR043113, and AA541570.
HOFNL18	266	994874	1 - 393	15 - 407	BF982594, AA304945, BE786293, AA355289, BE882518, BG164113, BG036187, AW945552, AL522242, AL521727, BF345678, AL533751, BE018492, AA312114, BF210611, BE886709, AA495817, BF002097, W72340, BF968410, AA477457, N79824, AI669118, AI245484,

HOFNT57	267	994954	1 - 1163	15 - 1177	AI372958, AW079905, N21556, AI093765, AW450650, AA099228, R56490, H15484, AW451773, BE466523, BF448069, AW236015, AW466866, BF591093, BF742982, AL080166, and AL031432. AU130186, AL532858, AU143566, BG032538, BE731387, BG178926, BF246251, BE546764, AI130008, BE882058, BE900653, BE901813, BF131040, AW238927, BE278958, BE280397, AA146802, BG258310, BE280706, AA037291, BF130537, AW408060, BF671218, AA281910, BE958235, AW958055, BE958177, BE281535, AA304757, BF698291, BF082842, BF667061, AI378241, AA304345, BF155007, BE855677, BF196802, AA380691, AW963766, AA878646, AI702569, AW026139, AW372761, AA635825, BE855640, AW372751, BF733132, AI472824, AI016431, AA843477, AA887947, AI378170, AA744678, AI361091, AI081395, AW516559, AI003236, AA146803, AA767727, N34655, AI399815, AA380690, AW856740, AI080717, AA962414, AA661648, AI983339, BF476713, AW088309, AW304176, BE719113, AA961155, AW189866, and Y11651.
HCBMT45	268	994993	1 - 1656	15 - 1670	AL524032, AL520718, BF343440, BG114926, BG163566, AW749600, AI628088, BE903299, BF348876, BE902526, BF036229, AU121257, W47499, BF348874, BE070481, AW875044, AA326810, W04800, AW838268, BE671868, BF357960, BE547306, BF888235, BG114819, AW937280, AA434529, BE070427, AA004472, U92010, and AK022138.
HATDZ56	269	995200	1 - 1879	15 - 1893	AU117737, AU119363, BF981791, AI126717, AI052256, AU121212, BG165314, BE902257, BE536040, BG259893, AU142181, BF342007, BG164121, BG111390, BE898067, BG028752, AW189938, AU135622, BG118715, BF795161, BG169327, BG121236, BG028368, AW070663, AI885180, BE880899, BE881172, AA745594, BF306702, BG107907, BF740223, Z99376, BE539928, BE892210, BF220065, AI014817, BG249687, BE880172, AW239211, AI784576, AW073683, AA524748, BF528854, BF665628, AW327439, BE779442, BF792343, AW276639, BG122906, AW872951, N36799, AI608763, BE783594, BG231999, AA627848, BE546358, AW247076, BE328479, AI127547, BE614484, BG179876, AW960374, BF343168, BE093813, BE958181, AA166916, AW327258, AA568685, BE464835, Z99375, AA700740, AA740916, AU150439, BG033007, AA573156, AW631056, BG177074, AA099018, AI051506, AA074799, AA812422, BE613976, AA835672, AW627745, AW976548, AI185757, AA503846, AA761648, AA592898, BG114482, AA160273, AW029151, BE546491, AW517165, AA451628, AW250428, BE958175, AI138225, AA809470, W63552, AA828239, AW327612, AI371140, AI371046, AI004126, AI089539, BE539342, AU145724, AA127406, AI537332, AI190076, AA687268, BF381173, AA715174, BE206290, AI073676, AU128126, AA167073, AI278484, AA775540, AI923795, BE535848, AA524391, AA978034, W88636, AA768416, AI635344, AI025865, AA992622, AW403551, AA393865, AA721424, AI024400, AW362155, AA962673, AA856908, AA173982, W73908, AA314538, AI031946, AA593126, AA031733, AI167830, BE936495, AA100657, AI922493, AA888675, H83589, AU123056, R54097, BE697208, AW819111, AI380802, BE043974, AI752947, AI761093, AI033288,

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HOCQ144	270	995229	1 - 715	15 - 729	AI831252, AI650374, BF061759, BF057060, BE797203, AI935139, BF061760, AW005769, AI417343, BF311313, AA554943, BE891954, BF685276, AI246563, BE618097, BG032880, BE397206, AI554680, BF976708, BF797333, BE744727, BE538158, BE907169, BE618643, BG164883, BE885647, AW274491, BE295294, BF237549, BE552307, AA160710, BG109868, BF594273, BE886498, AW080931, BE504728, BE559663, AI660049, BG164638, AI637467, BE900800, AU123019, AA777748, AI808876, AI380738, BF684237, AI270758, BF973412, BE895506, AA564413, BF310917, AW020646, AI281284, AI203218, AA403150, AI368831, AA401483, BE268039, AA913021, AI264541, AA305922, AA700029, AA705555, AI097153, AA430504, AA149943, N75989, BG119145, AA629934, AW966695, AA913020, AW472855, AI308917, BF981762, BE784527, AW027600, BF0822396, BF974975, AA136118, BF057814, AA936828, BF082395, AA401609, AI867762, AI264545, AA974269, AA633277, T86566, AA834364, BE789276, AW263663, AI133562, BF594511, BE904898, AA596035, AA977854, AA315182, BG033608, AW016092, AW404348, AW025749, AI884737, AI250679, T86744, BF345117, N89562, BE905692, AW079637, BF762047, AI565861, R80990, AW237726, R94970, AI695116, BE901072, AW188591, AA382274, BE205766, BE550389, R95056, AI799019, AW590111, AA719022, AI909396, AI288271, AI909403, R80790, AA760768, AW970688, AI909375, AI858174, AW849952, AW807662, BF809022, AA576241, AI590646, BF082228, BE009475, BF922727, AA403208, N88948, BE926176, BE009463, BE294296,

HNOJG43	271	995562	1 - 1016	15 - 1030	W04406, BE940226, BF818730, AA705085, AA092755, BE963676, BF745587, BF756809, U73379, AL050348, AL121852, AC010326, and AR018789. BF530931, BE887433, AA700637, BG031212, BE787285, BG032265, BG250289, BE872777, BF975368, BE888350, BG259501, BG178671, BG121264, BE385572, BG025460, AU123889, BG120763, BG176849, BE018986, BG251569, BF310080, BF796217, AL040945, BE292902, BE867768, BE778230, BE313767, BE535894, AW651694, BF203366, BE885600, BE018210, AA568104, BE263239, AW244142, BE890472, AW069664, AA165235, BG029628, AA311257, BG028398, W26906, BE873320, H29111, AA379686, BF081407, AW732839, AA165234, AA379707, AW408242, H92844, AA309679, AW732846, AA355319, AW244134, AV739862, BG030885, AB040387, H17153, AA337612, BE384475, BF811815, AA079621, BE385617, AA327809, AA453327, N89415, BF757893, AV737107, BF085282, BF358015, AI904702, AI571790, BF088476, AA028062, AA028061, AW262589, AA877545, AV737069, AL040946, AA149034, AI911678, AI264209, AA582725, AA594933, AW513329, AA488110, BG231727, AW612918, BE301689, AW673154, BE208801, AI885475, BE207777, AI678902, AA879144, AA588402, AV708243, AV708606, AI904760, AW899615, AW971745, BE208405, AA617827, BE837271, AA772717, AI281987, AW804686, AW392670, BE695785, AW861944, AA612842, AL119396, AW604723, U46349, AL119355, AW858526, AW858525, AL119522, F30775, BF926800, Z99396, U46351, AW877209, AL119319, AL119457, BF858264, AW190557, F21301, BF360811, AI685800, AL119324, AI311525, AA970639, AA954246, AA151031, AW276144, AA463498, AI302605, F36969, AA971107, BE705903, AA745842, AA884129, AA613325, AA779167, AA832330, AA907225, AW615590, BE705906, AW577135, AL119483, AW372827, AW384394, AL134525, AW861889, AW858455, AW363220, AL119497, AL119484, AL119363, AL119391, AL119401, U46350, U46347, AL119443, BF868687, AL119444, U46341, AL037205, AI904745, AL119341, BF868684, BF868697, AV744583, AW604726, AL119439, BE705905, U46345, U46346, AL134538, AL119418, AL119335, AI142137, AW511430, AL134902, AL043019, AL134536, AL042544, BE705904, AL119399, AL042984, AL119496, AW861954, AI142132, AL043039, AL043033, AL042614, AL043029, AL042450, AL043011, AL042965, AL042542, AI142139, AL042975, AL119464, AL043003, Y08915, E12650, AL158141, AL049776, L31652, AF000577, AJ223156, AJ223157, AB026436, AR080280, AX046357, AR060234, AR069079, AR066494, AR054110, AJ251859, AX030435, A81671, and AJ279014. AL523089, BE735213, BF690068, AI192441, BE793432, BE794150, AA630330, BE791668, AL523088, BE901445, BE793552, BE515306, BE276069, BF689238, BF027098, BE900126, BE562743, BE747331, BE791104, BF973064, BE733064, BE620825, AL529029, BF025872, BE311984, BE744764, AA641149, AI971403, AI049983, BE387021, BG033880, BE515093, BE796039, BG034885, BF796669, BF026756, BF685347, BG030617, BF688429, BF794151, BG117363, BG169033, BE730729, BE797697, BE728295, AI680328, BG033071, BE908570,
HSPSB95	272	995590	1 - 979	15 - 993	

BE897647, BE620291, BE260615, AL529028, BF797798, BF525969, BF982573, BE898679, BE904867, BE907926, BE795057, BE729520, BG114176, BE386413, BF797731, BG120372, BF689993, BE888479, BE410285, BE728455, BE407458, BF220268, BE386506, BE731499, BE336807, BE731587, BE885785, BE906906, BE745637, BE384700, AI760301, BE407218, AA604386, BE409369, BF311123, BE724061, AI015012, BE277429, BF032190, BE293937, BE336637, BF026085, BE410671, BE797737, BE388605, BE407257, BF033167, BE543649, BF306304, BE256410, BE256962, BG167330, BE388962, AA918143, AI986290, BE390413, BE387464, BE264817, BE251052, AI683975, BE563000, BE269280, BE391823, AI214931, BE389503, BE386273, BE389623, BE792434, BG249256, BE795615, BE274148, BE386620, BE275541, BF475421, BE257356, BE905966, AW672803, AW602848, BG169737, BF127610, BE265073, AV717825, AI815059, AA582169, BE408388, BE387128, BG121830, BE298988, BE390377, BE567451, BF982307, BE044006, BE220913, BF808999, BG168940, BG170297, BE298974, BE044012, BF303707, BE313753, BE252582, AW238367, AW580022, AI559988, AW629862, BF132606, AU123096, AW613402, BE727194, BE018912, BF733020, BF306479, BE890515, AW262888, AI572946, BG169810, AI198497, AA075471, BE296465, AI129846, BF238480, AL535836, BE275853, BE732263, AI033883, AI218968, BE546366, AV721619, AW250712, AW271241, AW950763, BG171587, BE299336, BE262350, AI028000, BE394418, AW246974, BE378107, BG035074, AI041500, AI890759, AV749990, AV690777, BE389999, AA812402, AI246222, BF973869, BE786993, AI830946, BE350137, AI222875, BF687846, BF348254, AW063663, AA903040, AA846840, AA653320, BF194808, AA668904, AI219186, BE878516, AW731840, N57261, BE254071, N63813, BE303072, AA586783, N47918, AA069811, AU159674, AI040550, AI150947, AW264749, AW964328, AI032324, BE206197, AW246857, BE383574, AA987252, AI200565, AI189099, AI142935, AW662124, T56225, AI190386, BF219717, AI200480, AA847346, BF338998, AI245479, AI291856, AW305241, AI961611, AA573530, BE139726, AL532752, BE139308, AI147152, AI340086, AW302681, AA126263, AI274163, D26600, S71381, U65636, L17127, S82190, Z63133, T49861, T49862, T56367, T72170, T72948, T92867, T74728, R08625, R08719, R17408, R24674, R25174, R25378, R25997, R26800, R28401, R31330, R31589, R42642, R45259, R45259, R62552, R62553, R6386, R67726, R68781, R68878, H25120, H25121, H41115, H41190, H41191, R84227, R87629, H53386, H64419, H64476, H72640, H72641, H64419, H99301, N22341, N25846, N29370, N29843, N59763, N94171, W23786, W45524, W72111, W77797, AA010718, AA011164, AA033553, AA033554, AA062727, AA062741, AA062784, AA075470, AA081844, AA083492, AA084442, AA100358, AA126354, AA136544, AA136648, AA146862, AA146863, AA179509, AA179540, AA179775, AA180492, AA181719, AA188903, AA189140, AA226959, AA227247, AA225130, AA225233, AA226692, AA229645, AA229809, AA229844, AA507185, AA515981, AA535664, AA565625, AA586482, AA601109, AA610517, AA640009, AA570102, AA770591,

HCORG29	273	995806	1 - 1461	15 - 1475	AA815199, AA830586, AA911330, AA916092, AA918025, AA919062, AA935569, AA968500, AI001185, AI074161, AI085640, U47714, N84140, N85605, W22846, AI122703, AA092477, AA211134, AA211135, AA435752, AA453192, AA454024, AA486315, AA633817, AA634340, AA668174, AA704265, AA780628, AA888802, AA772744, AA98583, AI084759, AI088054, AI094555, AI095297, D19852, D31083, F04954, F07845, F00569, F00390, F01008, F12767, F10374, AA773788, AI270289, AI280920, AI285297, AI302214, AI306575, AI340120, AI361068, AI364270, AI417315, AI583912, AI149150, AI151225, AI183602, AI189111, AI204498, AI219001, AI219118, AI219203, AI219413, AI241508, AI267764, AI282132, AI862801, AI887014, AI918389, AI918631, AI937713, AI973086, AW074320, AW149328, and AW276054. AL525031, AL530529, BF663306, BF971545, AW025025, BG258475, AU118761, BG032914, BF685877, BG121633, BE903452, BF981478, BF685489, BF797011, BG116837, BE620242, BG164987, AA827927, AI554406, BG249820, AI524296, AI571895, BG180487, BE740527, BF525728, BE393489, AI572859, AI811667, AI570178, BE387716, BE620784, AI884603, BE879489, BF127513, BG253264, BF663728, BE395984, BG253562, BE905611, BF219300, BE785705, AW338209, AI439999, BF211816, AW613426, AL525030, BG030951, AA156241, AA679290, BG107695, AW167595, AI819887, AI375063, W73277, BE350515, AI189651, AI610178, AA458883, AA491213, AU145990, AA827903, BE787350, AI005398, AA922921, AU119724, AA054320, AI160911, AI685114, AU145249, W05582, AI093117, AW021515, BF216780, AW022794, N30640, AA581846, AW469855, AW163065, AI266487, BE350933, AI031704, AL038497, AI372851, BE172272, AW510581, N67420, AI760129, AI567473, AA641542, AI368039, AI823984, AI669557, AW363504, AI283802, AI089726, AA551037, AI918930, AW631236, AA617652, BE856972, AI357866, AI306589, AI269694, BE715156, BG004783, W69646, AI309054, AA845918, N22717, AA829897, W69647, N24200, AA988609, AA459073, AI362823, BE265458, AI538392, AV693399, AA715103, AA132151, N30171, AA581975, AA132029, AW004780, AI687460, BF215226, AA054420, AI352565, AI758991, BF732353, BF692209, HI0217, AI434220, AA025260, BF431116, BE869449, AA025338, H87399, BG222957, AW887096, AA341088, W87822, BF816282, R94593, AA076082, AA490721, AW591730, N75554, W87911, AI433500, N40816, N62299, AW952176, R36365, BF816279, AA878469, BF446815, AA618380, AV748450, AW630598, AA320520, BE768577, AI539196, AW407015, R46078, AI302689, R85306, AA056977, AA147254, R05766, BE812153, AA282256, AI587368, AI024987, AI763128, AI680889, AA341584, AW627423, R85305, R01156, AI350405, AI678578, BE075897, AA010791, AA447827, BE768617, AA173636, H59964, BF367093, HI0272, N95145, AI769382, BF741466, AA931906, BF976950, AI814270, R94594, AI581915, AA282730, R92966, BG032240, BF342174, AI217691, BE812421, BF002679, AI384121, N27031, W56129, AI351715, BF571368, BE741347, H69103, AA210625, BE328449, BF799534, AI971774,
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HCRNO02	274	995894	1 - 525	15 - 539	BE348752, BG113168, AA992688, AV691812, AA458647, U30825, AL021546, AP001725, AP000692, U87279, U87277, U87278, AA877919, AA011220, and R29605. AI087863, AW205361, W67736, AW135527, BF112018, AI261883, BE886105, AI954585, BF592922, AA922244, AV726182, BF033136, AW402172, BE889683, AI347209, AW605270, AW949405, AU134577, BE539958, AW605272, AW418630, AL525630, AW601391, AA321817, BF115737, AV689056, BE565311, BF572563, AI933896, BE894922, BF853166, AW605273, AI879891, AI692564, BE909642, AW270487, BF669959, AW084360, AA602961, AA101742, AW612752, BF757848, BF797062, BF977586, AU142848, W25008, AV708387, AA306002, AW614255, AW377570, AV728041, AA016984, BF755701, AI802071, W67735, BE885363, BE884342, BE890337, AA377036, AA02406, R27168, AA069079, BF760715, U18914, S82081, and U35428.
HCB0179	275	996247	1 - 879	15 - 893	BF344503, BG253745, BE884245, BE315407, BG180340, AI114464, AI744084, BF003120, AW451065, AI888992, AI431740, BF568084, AI380546, AI656998, AW300527, AI433538, BE464324, AI160803, AI874272, BF476317, AI916753, AI638710, AI952946, AA009412, AI888867, AI796216, AW051510, AI871622, AI382137, AI570640, AA136115, AA009693, AW237382, BF592115, AI916760, BF102764, BG256114, AI357604, AW206165, BF059310, BF874841, AA767400, AA962144, AV694380, AI223191, AW242929, BE791944, AV707942, AA136067, AA450010, AA047548, BF591090, AA057784, AI671950, AI803084, AA452628, AI183340, BF591405, AI810350, AW015645, AI217043, AI818009, AW182191, AI564896, AW075602, AW014905, AI357555, AI766792, AA566017, AI336131, D20857, BF668498, AI751642, BF568923, BE799110, AI364812, BE673585, BF217847, AI873178, BF954384, D31155, AI969843, BF939241, AA329597, AW169141, BF221870, AK000857, and AC003112.
HVCAB73	276	996337	1 - 1513	15 - 1527	AL518842, AU118468, AU117968, AL517493, AU117660, AU119978, AU142310, BE790938, AU142367, BF972250, BF984978, BG252995, BF684869, BE559749, BE560314, BE902291, AU128821, BE795645, BG032172, AU123321, BG110982, BE792404, BE300141, BF982746, BG113974, BF984581, BF794875, BE907107, BG257415, BF309826, BE795893, BE792464, BG028288, BF965624, BE735087, BF976730, BE799193, BF305694, AU142239, BG257876, BF529711, BE613812, BE614422, BE791689, BE885879, AL517492, BE409756, AU135389, BE783011, BG032093, BG114278, BE901386, BE618095, BG122124, BF026898, BG256177, BG251091, BE612467, BF311267, BE618641, BG107568, BE888894, BG180037, BG028062, BE278994, BE614277, BE891718, BE868694, AW947123, BE298422, BE908780, BE278771, BF979838, BG121166, AV759228, BG116644, BG108186, BE272582, BE746783, BE785332, BF316338, BF973741, BE730725, BF979294, AV698719, AL040837, BG106907, AV706709, BF311733, AA206423, AV706293, BE789022, AV706359, BE259394, BF983820, AV713317, BE543291, BF980476, BF310651, BG031342, AU134782, BG261061, BG251520, BF981835, BE396863, BG028634, AW946539, AV653256, AL035921, BE275555, BE612914, BG026070,

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HSDJH04	277	996619	1 - 926	15 - 940	<p>BE904901, BG168030, BE878351, BG259171, AW732563, N24355, AV724626, F24474, AV722309, AI261328, AW328428, BE674638, BF345021, BG255797, AA532928, F37428, AI370570, F22370, F32515, AA296010, AW070530, F33022, F31501, AA918040, F22734, BE905663, AI022292, AI929756, AI300554, AI718610, AI718646, F33373, BF793297, BF793269, BE875134, AI339442, BE855791, AI342832, AI735425, F33367, AA603132, AI695802, BE730633, AA429820, AI024066, AA031459, AA532849, AA772747, F37419, AA136087, AA873691, AI017375, AA625381, AW467861, AA994440, F30932, AA513042, AI191651, AA907866, R09570, F19496, AV741591, W52552, AI497696, BF035508, AA770559, AI369674, AA506595, AI279742, AI302456, AA320307, AA303547, AA452025, AW627910, AI418637, R28551, BE907102, BF965846, R07147, H51877, F35932, H27315, F29523, F28344, AA548806, AA535397, AA148236, R07146, F21114, BG254257, BF185406, AA552277, AA304129, AI968949, R09479, AA570105, AA876458, AI160002, AA304639,</p>

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HSOANI8	278	996804	1 - 616	15 - 630		BE466450, AW085532, AW241624, AW241613, AA806056, AI139578, AW241447, AI655042, AW296683, AW241504, AI005390, N32749, AA732371, N32766, N75507, AW977149, W23313, BF671561, BE541574, AI349361, H01507, H00269, AL079342, AB030654, AF155159, and AF02093.
HHEHF49	279	996874	1 - 788	15 - 802		
HCHCF36	280	996903	1 - 838	15 - 852		AA604207, BF568246, BF685919, AA769075, AI829363, AI160465, AW611817, AI365676, AA909715, BE504747, AI333819, BF828573, AI523938, BF989966, AA768116, BF091370, AI168213, AI658820, BE390437, W56333, BF987457, BE797515, BG110670, BF974205, BE745959, AI652259, BE563589, AI097626, W56246, BE880543, AU141729, AL134271, BE933141, C75024, AI933359, BF087614, BE279562, AI475845, BF314042, AI936721, BE735049, BE298845, AI933320, BE265132, AW512295, BF802106, AW498827, AI431995, AI283491, BE222982, AW449482, AA808235, BE392368, AI763116, AA814951, AA505663, AW274238, AA056204, W56326, BF036391, W56359, BE900914, AI656477, BE818925, AW162674, BF309126, BE700914, BE254984, AA055543, AI760331, BF827226, BE395139, BF229557, AI369700, AI369699, AI197948, BE048398, H81842, AW242467, BE818985, BF307576, BE617252, BE514899, BF125485, AI972328, H44030, BE742153, BF828519, BE793542, AI082336, AA459967, BE812253, BE184274, AU130605, Z25808, M77198, M95936, D30041, U22445, X65687, X61037, and AC002364.
HAHCK58	281	997127	1 - 1797	15 - 1811		AL530933, BE744244, BE886518, BF307394, BE886078, AA521306, AI346509, AW014616, AU154742, AU160803, BF307330, AW662413, AW043807, AW000956, BF434533, AU159740, BE350868, AL530932, AU153954, AA031263, BF897515, AU153595, BF223978, AU146675, AU152826, AA524349, AU143944, AI340333, AW128969, AI826348, AW305306, BF062439, AI564106, AW304346, H71784, BE878383, AI161344, AI262022, BE504256, BE326650, BE504858, AI039240, AW162372, AI962737, AI309252, N76604, AI815896, W69677, N94090, AI935385, AW271271, AI948839, AA010408, BG004347, BF091918, AW513419, AI289056, BF055132, AI638198, BE219405, AW008633, BE676811, AA532714, AA632276, AA040180, N54492, AA570140, R98609, AW025830, W69676, AW510423, AW073235, AI694628, R15330, H71783, AI886412, AA582538, BF798373, AA635538, AW578114, N69270, R98610, AI917180, AW014409, BF886580, AI383709, AW078973,

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HETI06	282	997165	1 - 371	15 - 385	W04730, BE266365, AI133648, BE793925, BE559709, BE790580, AL518848, BE865465, AL530857, BF132480, BE740884, BE795484, BE793563, AI304872, AA741065, BE865290, BF683810, W80875, AA122216, AA308813, AA284386, BF326544, AL355392, AF161516, AK023992, and AF152097.
HAPOE30	283	997595	1 - 2897	15 - 2911	AU117247, AI126490, AV717396, BG104731, BE501285, BF056914, AI094852, BF796496, BF063299, BG256800, AA454987, AA454988, BG114650, AW080282, AW966631, AW168948, AI336277, AA772322, BE220380, AI859792, AI417858, BE466892, AW103075, AU159373, BE504285, AA918401, AI432403, BG230590, BE673392, BE670742, BF725058, AA410511, BE540683, AA083340, AW594055, AA418120, AI949050, BF112235, AU144138, AA679107, AI708897, AI376002, N78061, AA477527, AI700609, AA828552, AI991181, AA417942, AW168995, AI139660, AI021901, N25477, AI004673, AA411601, AA024709, N49529, AA693511, AI985704, BF343591, W60152, AA778693, AA180440, AA418978, AI767329, BE350692, AI242979, AA577408, W51942, AA524990, AW195065, AW028525, AW953384, N49287, AA418805, AW243797, AI246226, AA024727, AW008941, AA757727, AA527910, AA074180, C05139, R67172, BF348935, AA813662, AW971329, W94122, AW614468, AW513979, N58471, AI868472, AW182171, AA707715, AI183895, AI927765, AI620107, BF508176, R59987, AI654118, AW204432, H44803, AA352918, AA295664, AI499474, AA363317, R09270, R26284, AI784077, AA385639, R25459, H95934, AI572507, BE160130, AA885993, AA363316, R35885, R35884, AW993480, AW023692, AA721410, R36442, AA251090, AI864808, W94018, AA579940, AI872496, AI249523, AW993214, R36160, BE817052, R58756, AL513907, AV729890, AL514919, AL514627, AL513597, BF054789, AI985363, AL121270, AL514691, AV655645, AL514791, AW071349, AW827203,

AA362948, AL514087, BG036846, AI868831, AW303152, AI349772, AL515041, AL135661, AV681951, BF883916, AV681630, AV682252, BE785905, BG108324, AL513631, AV733397, BF724691, BG179993, AV758806, AI815383, BE048071, AV704350, AV682479, AL047042, BF971016, AI538716, BG058208, BE047863, AV723772, AV757598, BF795712, AV723204, AV711924, AV681858, AL036396, BE964812, AI064830, AL513803, BE964700, BF673434, BG260037, AV757455, AL046849, BG107847, BG108147, AV723062, AL045500, AV682772, AL514803, BE048163, AI349645, AV682466, AV682476, AL119791, AV734318, AV758110, BF343172, AV711509, BE048081, AW268253, AL119049, AV757012, BE777769, AV758217, AV681668, AV762488, AL513779, AL514935, AL515047, AI436456, BE965891, AW162071, BG114104, AV715263, BE965095, AV681857, AL513553, BG168696, AL036802, BF968041, BG029399, AV682521, AV682809, AV710479, AV758592, BF968493, AV755581, AL120854, AI500553, AV723953, AV757943, AV682051, AI433976, AV756477, AW827249, AV755613, AI500077, AV705644, AI207510, BG105099, AV755614, AI340382, BG250190, AV682289, AV682074, BE048319, Z75330, Z75332, AF255017, AF070386, I48979, AF130105, AF090934, AF090900, AB048953, AL133640, S78214, AF130104, AF116644, AL050146, AF116631, AF116602, AL133016, AF130059, AL050393, AF113691, AF116646, AF116639, AF130075, AL442082, AF078844, AF116691, AL117457, Y11587, AL389978, AF113013, AF118064, AL110196, AR079032, L31396, AL442072, L31397, AX046603, AF118070, AL157431, AF090943, AF130082, AF125949, AL049938, AF104032, A93016, AF138861, AK026608, AL133606, AL137527, AF113694, AL117460, AF090901, AB049758, AF116688, AJ242859, AF090903, A08916, AL390167, AL080060, AF218014, AL049452, AF113690, AF111847, I89947, AL359596, S68736, AK000212, AF130092, AF119878, AL110221, AL359601, AL050116, AF113676, AB050510, AR059958, AB047615, AF106862, U42766, AF113689, AL122050, AL050149, AF090896, I89931, AK026865, AL122093, AK026741, AL133075, AF119875, AB048964, AL050108, AB041801, AX019230, A08913, AL162083, AK025084, AK025958, X84990, AK025339, AK026045, AL162006, AX019229, AL049466, AL096744, AB019565, AF017152, AF113677, AL133557, Y16645, AL080124, Y11254, AL049314, AL137557, U91329, AF113019, AL050277, AF219137, AL080137, AF119899, AF158248, AF113699, AK026855, AL137283, AL133093, AF146568, E03348, I48978, AF116649, AX006092, AL133080, AK026744, AL389982, AR011880, AK000618, AF111851, X63574, AJ000937, AL133565, AL122121, E07361, AL137459, AK026533, AL122123, AK026784, AK026592, AB051158, AK025772, AK027096, AL359618, AK000083, AF314091, AF091084, AL110225, AL359941, AF097996, AK000137, AB052191, AK000445, AF207829, AF119909, AK026452, AF125948, AK025092, AK026647, AL117394, AL137550, AF271350, E07108, AL050138, X82434, AK024538, AB048954, AF177401, AK026542, AL133560, AF079765, AF242189, AF225424, AF017437, AR087170, AL049430, U00763, A65341, AK026583, AK025491, AK000652, AK026927, AK026353, AL117585, AL353940, AL359615,				
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HRGDC33	284	997862	1 - 1826	15 - 1840	AB047904, AL117583, AK026504, AB052200, AL049464, AF119871, AK000614, AF130099, AL049300, AJ238278, AK026534, A08910, AF130066, AF116682, E02349, AK024524, AK026532, AF130077, AF177336, AF130110, A08912, AL137271, AK026959, AK026086, AK026480, X70685, AL122110, AL050024, AL049382, AL133258, AK027113, AK025414, AF067728, AX042059, S61953, AL117435, AK000323, U72620, E05822, AF183393, AB049892, AF118094, AK025967, AK025391, AP001666, AX026824, AX026823, A58524, A58523, AB048974, AC009364, AL137648, AF130087, AP001346, AK026526, AK000432, AF116610, AF175983, AK027204, AK026642, R09167, AA476684, AA904630, D25837, and AI873137.
					AL530171, BG167455, AW341526, AA143021, AI621276, BE695940, BF540992, BE695955, N34863, AW593873, AL530172, AW196758, BF223067, BF223008, BG054486, AI392748, AI807788, AI147923, BF666752, AI634124, AW204647, BF438607, AA293879, BF476285, BE866767, AW276898, BF434775, BF103871, AV712302, AV711800, BF983985, AI392984, R63482, AI680602, R63481, BF507828, BF688635, BF908078, AI795905, AI444949, BG17163, BE048998, AW269138, BF689020, AA251885, AA150912, BE566036, AW884530, F34562, AW801105, AA872641, AA321262, AW082114, BE001578, AW674054, AW961602, BF913145, AA937288, F29869, AI924910, AI908447, AW800341, BF746755, BF215227, N43936, BF676410, AI969745, BF061733, BF796686, AI990282, AW884388, AI109918, AP000568, AP001676, and AR022362.
HMTMB91	285	997873	1 - 1162	15 - 1176	AV75264, BF577013, AI923558, AW268804, AW469653, AA760854, AA580566, AA580691, AA836465, BF899990, BF926478, AA768321, BF514639, BF088900, AW392416, AI885519, BF061715, BE888827, AW129764, AI951031, AW858464, AI936012, T40389, AW392849, AI820997, AW858513, BF950338, AW836417, AW392833, AI821288, BE503330, AW837691, AW750461, BG114047, AI275943, AF109907, AC004858, Y12017, AK026107, AR060046, and AR060053.
HFAAD07	286	998059	1 - 988	15 - 1002	AV684787, BE674615, AI887753, BG258585, BE218749, BF224413, BG165003, AI702451, BF224407, AA548464, AI978680, AA071156, AA191693, BF570780, BE738364, AI797896, AI826052, AA041342, AW014334, T62575, AA197202, AI084270, AW375498, BE775118, BF333162, AA188647, BF431428, AU155686, AA602203, BF751398, BF365027, BF155009, H10377, H20737, T63199, AU117290, R71297, AI829554, BE645507, BE815650, BE247171, BE701182, T62541, AI659397, AI868867, AI810306, R40856, BG110361, AI701277, AA602213, T62616, AI221666, AA070862, AA860281, BF718478, AA191265, BF088816, BE090765, BE840583, D25992, BE704032, BF692434, AW754457, AW363933, BE540276, AI217112, AA528408, BF981414, BG015645, AI633390, AV727030, AI199435, AK023434, AB029036, AI132948, AF119043, AL035410, and AK021491.
HE8TG67	287	998517	1 - 1884	15 - 1898	AL537729, BF346681, AL536527, AL517563, AL518650, AI525543, BE621523, AL536921, AI040011, AL531577, AA704144, AL516123, BE271006, BE540109, BE619747, AL533503,

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HACNC39	288	998533	1 - 527	15 - 541	BG258323, AV726190, BG059174, BF031580, AW247693, AV733393, BF673590, BE393632, AV718256, W33034, BG223143, BG027098, AA316722, BF540944, AV740290, BE620501, AA761185, W76104, BE880515, W72590, AV712501, AI373016, AW951730, BF343423, AI301029, AW516518, BE336891, AI973019, AW954688, BE267264, F19333, AA642858, AW275727, F24037, BE886443, R98379, AA293612, BG029810, AI074416, AV682189, T30842, AI193781, AI709082, AA010642, BG178022, BE206642, AW163422, AI369744, BE737738, AA972242, AA505959, W30911, AA622015, AI479908, N39461, N99973, R89095, F24482, AA081027, AA502036, R89203, AA035242, AV758359, AA573301, BG116673, BF976770, AI205784, W69222, AI301695, H55975, AA081028, BF028555, N95321, W01264, AI719663, R98380, AA861810, W07432, BE744309, W57656, AA927506, AI719437, AA226340, AA226339, AA659132, H55976, AA635460, BE263378, AW004852, BF208315, AI096433, AI885213, AI097113, BE858122, AA935727, AA935732, T64927, AA128637, AI282165, AI299205, D31544, AI087422, AI299261, AA977268, AI493422, AA535488, AA927717, BE738497, AI028146, AI027821, AI288435, AI590079, AV744150, AI758305, F32365, AA601928, AA862695, AA910891, BF082399, AI867500, AA601890, W69078, AA535582, AA011251, F22069, AW162386, AI554628, AW157546, AA514029, AA527091, AA514433, AA948196, AA307500, AW163423, AW841585, AI266428, F36879, AA304694, AI277191, BE620900, T34355, BF687997, D11824, F29996, AA127824, T19184, BF898606, AA852606, AA480469, AA385328, AA046538, BE045065, BF678637, AI880263, AA128770, T39525, AA837248, R66514, T67659, AI580758, N73968, BE567125, BF217569, AA680363, AA301822, AA055001, BF246041, T32179, AI879869, AI143015, AI141685, AA010673, AA177089, R67830, AW964427, R30686, AA973995, AA572821, AA282316, T30691, AV715207, BF743095, W24587, AI468069, AA321070, AA358416, AI445120, AA996068, AI014448, AA908418, AA931480, AI148889, AW583730, BE045228, AA045468, AI467821, AW583317, AA308501, BE049525, AA962130, AI148886, H47357, F37883, F27165, N70956, W35401, AW151841, AI148586, BE833126, F31392, F17340, N75848, BE174000, W03741, BF819345, AA092713, BF541948, BF819342, AC008752, and AF318186.
HCOQP78	289	998901	1 - 1051	15 - 1065	BF038501, BE743899, BF032818, AA587273, AI470221, BE501242, AI566249, AW590780, AI963941, AI916929, AA933987, AI656124, BE672062, BF508514, AW873183, AW801187, AW610294, AW998772, AI914774, AW610295, BF915088, AW998876, AA320217, AA343629, AW965060, AA401047, AA400995, AB008927, AB008390, AF055982, AB009849, AF095742, AX002035, AF095743, AF251125, AF243527, AC011473, AB012761, AB010780, and AX002037.
HCGMA67	290	998905	1 - 2397	15 - 2411	AL516908, AL529636, AL526532, AL528012, AL522876, AL521127, AL526488, AL521128, AL516907, AL531189, AU122740, BE745665, BE250550, AU119700, AI743606, BE798628, BE736968, AU125167, BE797870, BG112405, BE902115, BE560581, BE734679, BE793368, BF969559, BE620400, BE268360, BE736647, BE902108, BE728049, BE796873, BE870756,

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HAGGR59	292	999124	1 - 584	15 - 598	BE784070, BF002337, BF514872, AA568401, AA579465, BF967065, AW752043, A90832, and AL121674.
HOPKS83	293	999148	1 - 2249	15 - 2263	AL522393, AL533573, N99342, AL516958, AL535381, AL523241, AL535062, AL522394, AL535382, AL516957, AL523240, BE562445, BG105219, BE612965, BE312728, BF312923, BF315986, BF035342, AU118409, BE743128, AU119979, BF317065, BF315006, AI911669, BF206582, BE378738, BF314738, AI920919, BF307782, BE393973, AL517298, BG105346, BE299566, BF312608, BE336625, BE743194, BE899095, BE878702, BE314539, BE299463, AI863032, BE382388, BF793901, BE299754, BF033995, AW956858, BE336951, BE263982, BE299939, BE794536, BF204946, BG117746, AL517299, BE540363, BE746220, BE889577, BF310262, BE296433, BF032410, AI630771, BE262722, BF206365, BE881335, BE792711, AI962939, BF038482, BE736530, BE262374, BF983571, AL041532, BE222837, AI203519, BE747404, AW474516, AW860949, AI467799, BF038659, BE395887, BF205799, BF984646, BF035677, AI446105, BF033792, AI683133, BF207213, BE390734, BE880386, BE797748, AW084757, AI623575, AI198705, BF317016, AI688407, AI131027, AI951929, BF035073, BF724131, BF034309, AI680339, BF361335, W63745, AI802236, AI620096, BG117568, BE395019, BE963719, AI631270, AI017269, BE382313, AW404858, AA069776, BE217748, BE161881, AW131659, BF306325, AI146732, BF741443, AL041531, BE260390, BF811734, AW951865, BE963088, AW516123, AI126564, AI376222, AA399190, AI473708, BE298239, AI024470, AA069813, AI693963, AI038226, AA557265, BF832766, BF038178, AI146374, AI310457, AI371081, AI302272, AA613136, AI148411, AI080066, AI469677, BF315092, W58405, AA031461, AW301060, BE743266, AI366166, BF812723, AI097537, AI199004, AA479914, AW575954, BF956421, BE260076, AA156788, BE391447, BG169831, BG015923, AI814687, AA728764, AI859489, R72685, W74501, W61097, BF092603, BF092637, W58479, BF811740, AI683174, W79724, BF092611, AA974665, AI874214, AA156877, BE395715, AI568464, BF590686, BE336638, AI743500, BF948695, AI538384, AI039247, BF948453, AI149388, BE830442, BG059628, AA394042, AI625093, AW630225, BF092602, AI274730, BF446367, BE261854, AI040040, AI810483, N94374, AI446509, AI658968, AI367239, BF912314, H48071, AI018149, BE019825, AI589495, BF948722, W58139, AW511638,

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HE8CY70	294	999157	1 - 1830	15 - 1844	<p>R21300, R24774, R36859, R38515, R43031, R46146, R48308, R48410, R48837, R48836, R50605, R43031, R46146, R70155, R71373, R72615, R73704, H14786, H15694, H15747, H15786, H17811, H17812, H20794, H22611, H40823, H41607, H43789, H45364, H47720, R87510, R88795, R88794, R89030, R89726, H50894, H60992, H84383, H89495, H89641, N74100, W19372, W42783, W42898, W44469, W57868, W78899, W79097, W84333, AA025892, AA031482, AA040320, AA158788, AA158789, AA161030, AA427424, AA501350, AA523346, AA535958, AA541255, AA635581, AA744728, AA858101, AA873146, AA876672, AA894659, AA937250, AA976782, AA995084, W84394, C03893, AA292288, AA448902, AA453017, AA476579, AA722416, AA835064, AA852464, AA283459, AA860458, T03398, AA971995, AA947590, AI016219, AI039549, AI066699, AI086910, T15385, T17105, Z41095, T16680, Z45379, F01667, D45708, F04904, F05415, F05955, F07313, F08033, F09125, F11540, F13021, F13479, R12105, F09201, F10617, AI282756, AI288425, AI363724, AI453295, AI418866, AI471189, AI500689, AI131529, AI147105, AI247641, AI278086, AI291822, AI682136, AI682565, AI689335, AI696603, AI858413, AI918457, AI922927, AI953304, AW057752, AW073356, AW073834, AW074319, AW129483, AW138948, AW152247, AW166772, AW243760, AW264088, AW275276, AW189508, AW193597, and AW338298.</p>
HE8CY70	294	999157	1 - 1830	15 - 1844	<p>BE797192, BF530420, BE745297, AU117223, BF527457, AA496607, AU123909, BE872588, AW882094, BG013957, AU121939, AW351481, N79880, AW959439, F11971, AV693216, AW390117, BF931676, BF742689, AW997245, AW937846, AW800106, AW796165, BF931403, AW899383, BE700047, AL042881, AW899297, BE699796, BF819802, AA300925, BE149577, AW899299, BF743447, BE699998, AI570163, AA366791, AW899558, AU147665, AI978630, BF436552, BG010862, AW001282, BE700284, AA662508, AI635169, AW170627, AI890519, BF509786, AW130855, BE706148, AI783780, AI983256, AI801585, AA323509, AI193784, AI400088, AW009844, AI288952, AW166951, BE838621, BE819028, AW937780, AU151740, BE819006, BE838640, BF475968, AI983330, AW009053, BE819041, BE838648, AU129660, AW026864, AI199344, AI369124, AA348716, AA400881, AW117735, BE838678, AW169754, AW104779, BE904184, AB007867, X87904, and AJ011415.</p>
HPCTI53	295	999243	1 - 1791	15 - 1805	<p>AL535256, AL534951, AL537065, AL534840, AL532662, AL534290, AL534839, AL537766, AL536321, AL536486, AL519773, AL519772, AL534970, AL514450, AL536487, AL532832, AL515338, AL532707, AL517308, AL533170, BF966574, BF966824, AL533327, BF969218, BF312752, BF966857, BF971333, AW954554, BE741256, AU138028, BF348305, BE742610, BE746943, AL528920, BF966861, BF791964, AU134706, BE382457, BF793547, BG036726, BF206971, BF793341, AU136569, BE788895, BF793833, BE314586, BF528036, AU139364, BF315334, BF528947, BE786032, BF969765, AV705152, BG031513, BF970234, AI795976, BF966199, BE383501, AI147046, AW857216, BE784831, BF966444, BE259799, BF951728, BF527213, AL537064, H93036, BF951951, BE260158, BF951931, BE793344, BF951912,</p>